

Fig. 1

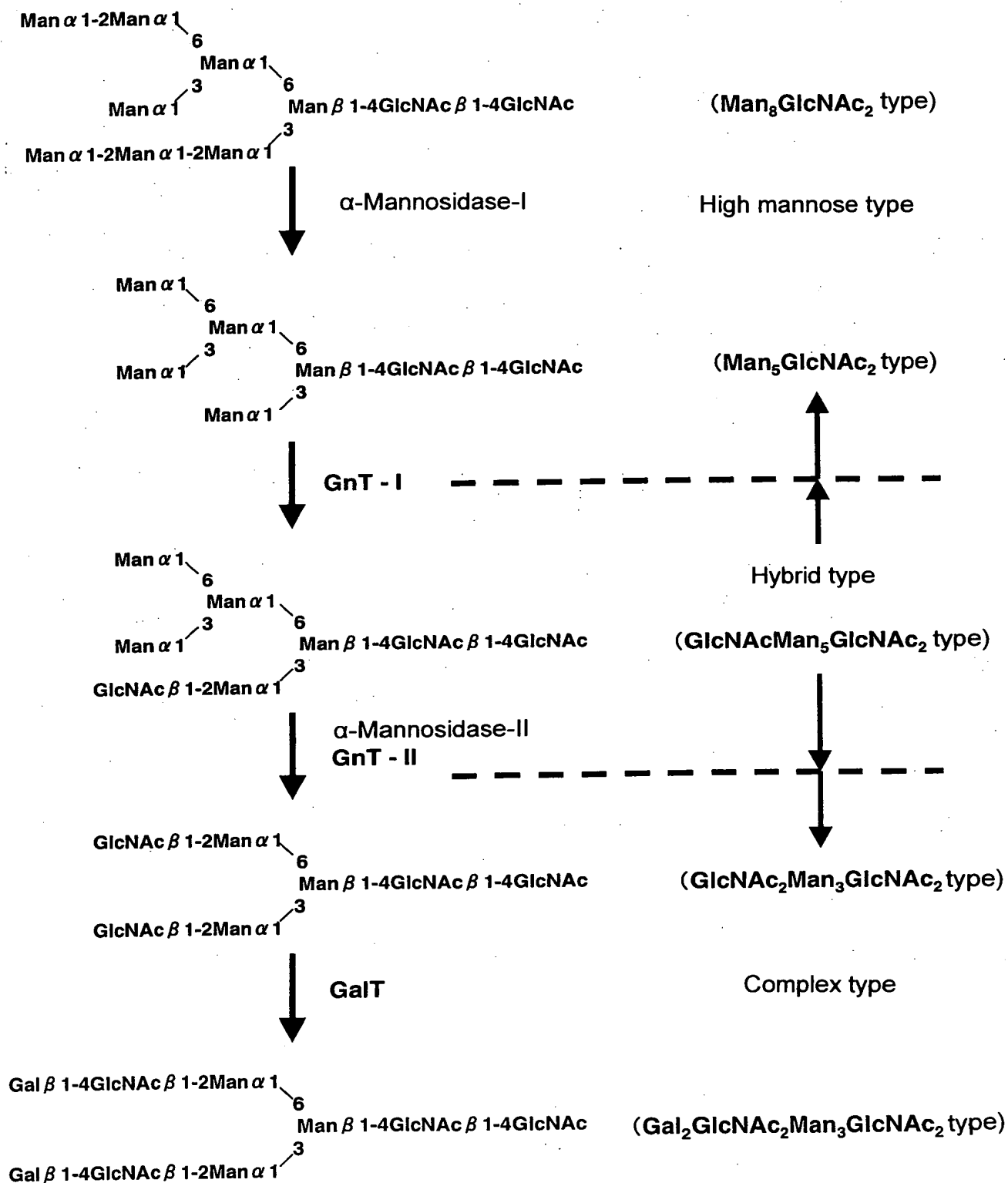
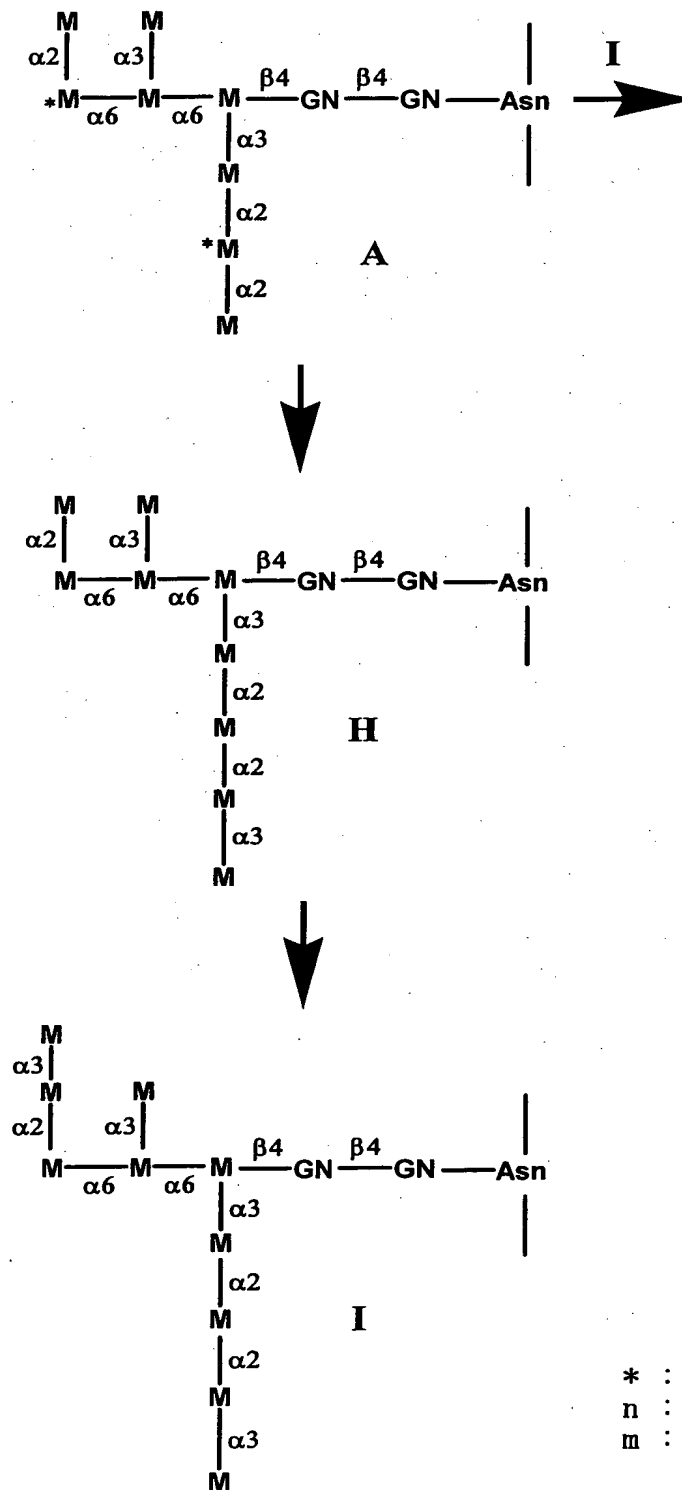


Fig. 2



10/511436

Fig. 2

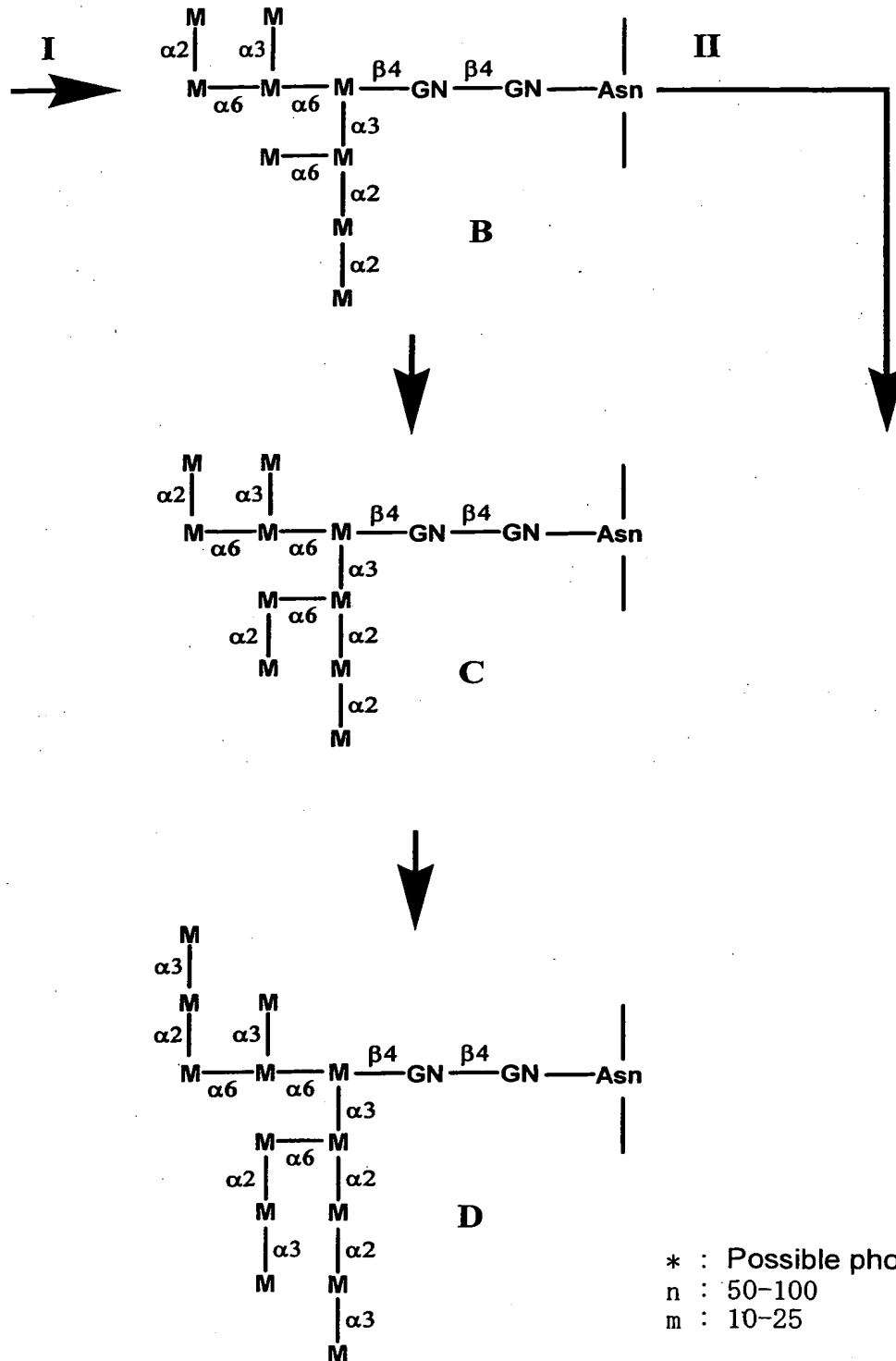


Fig. 2

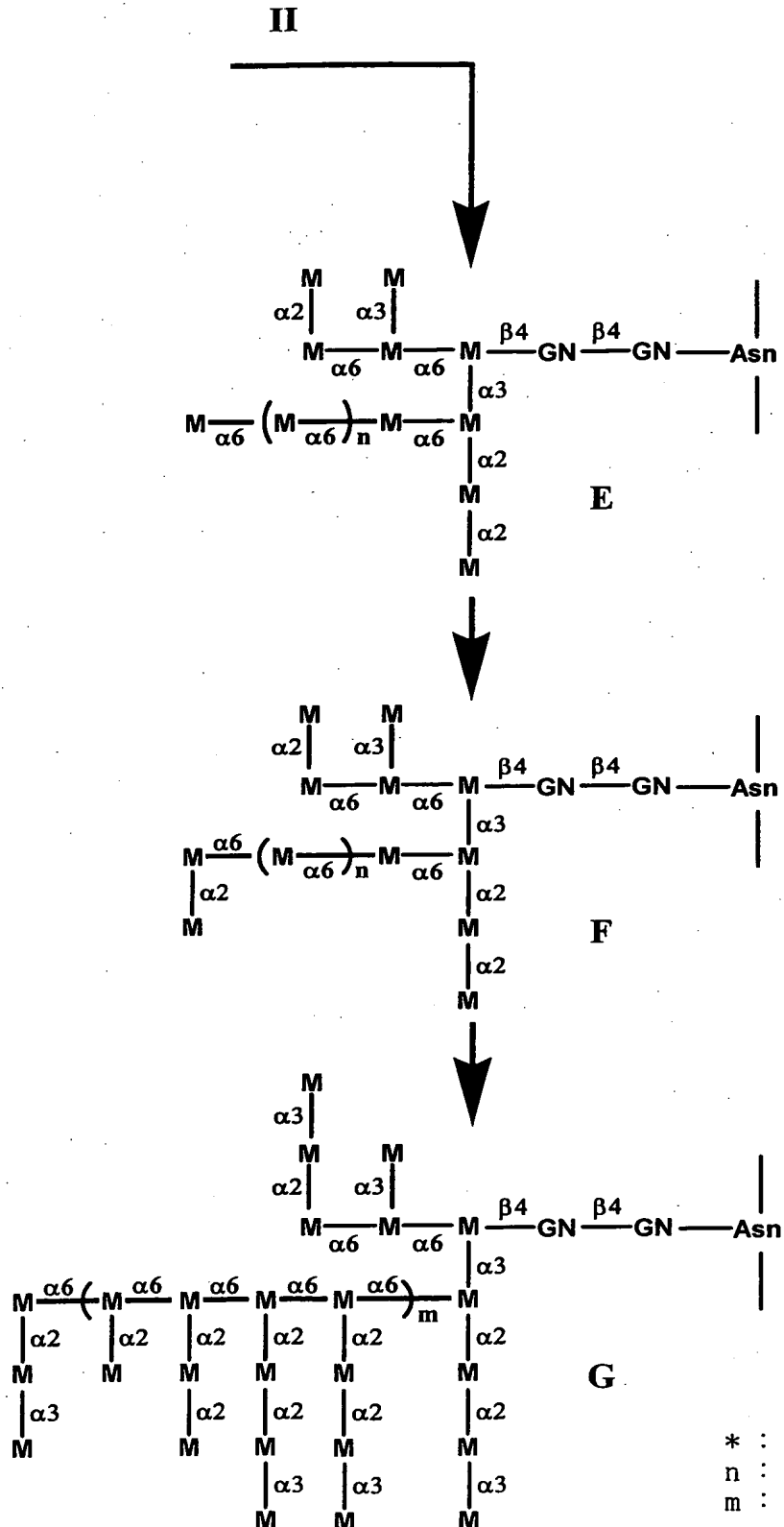
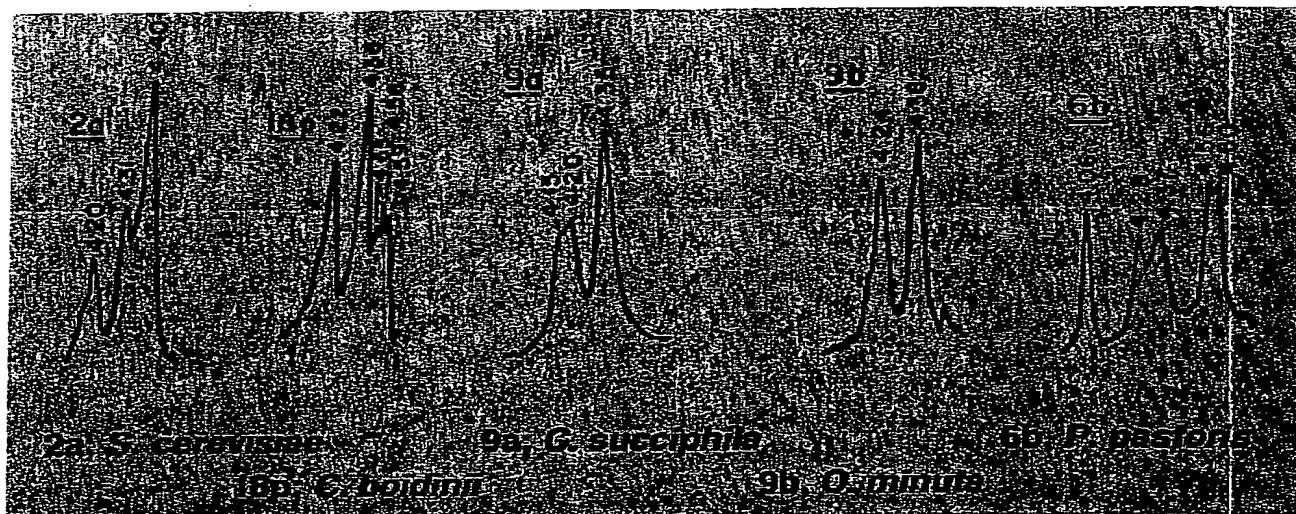


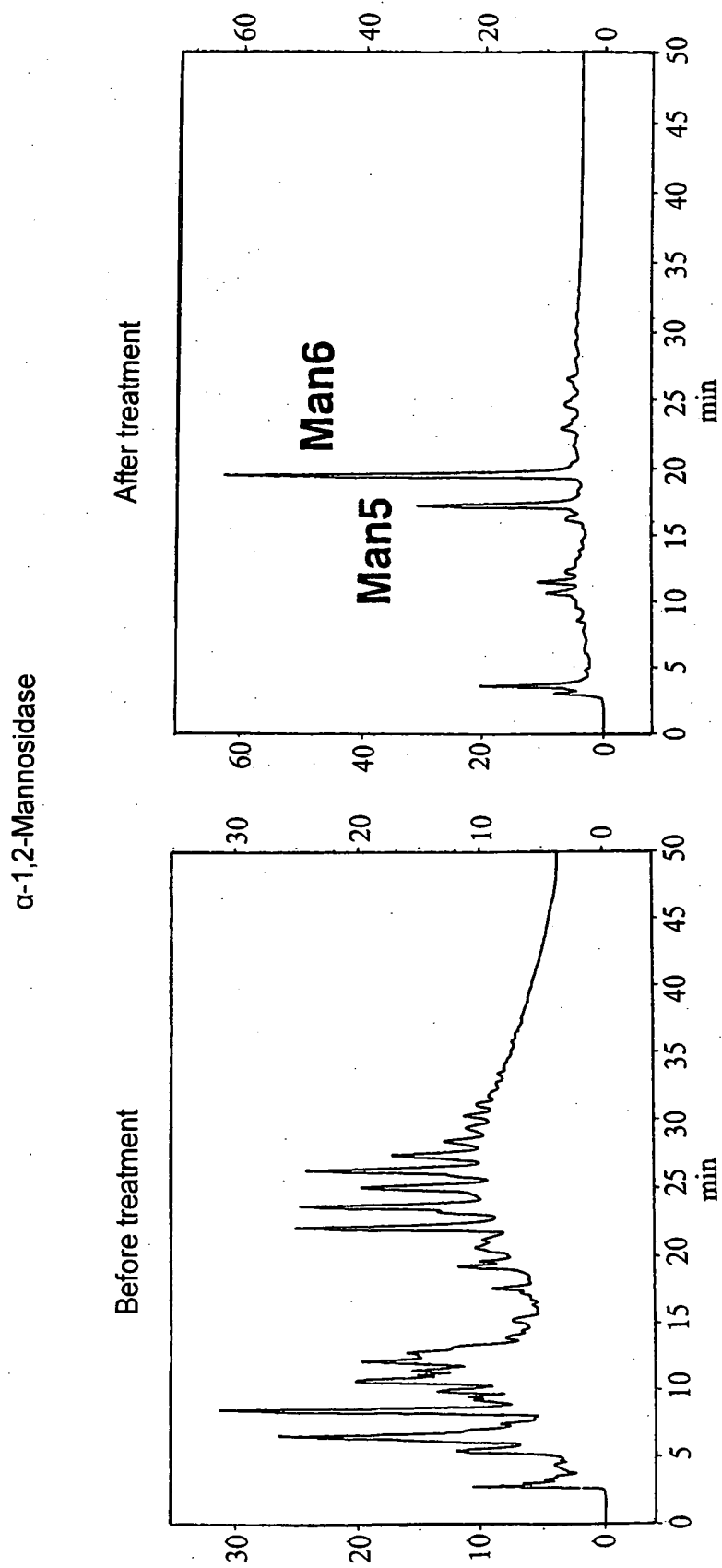
Fig. 3



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10/511436

Fig. 4

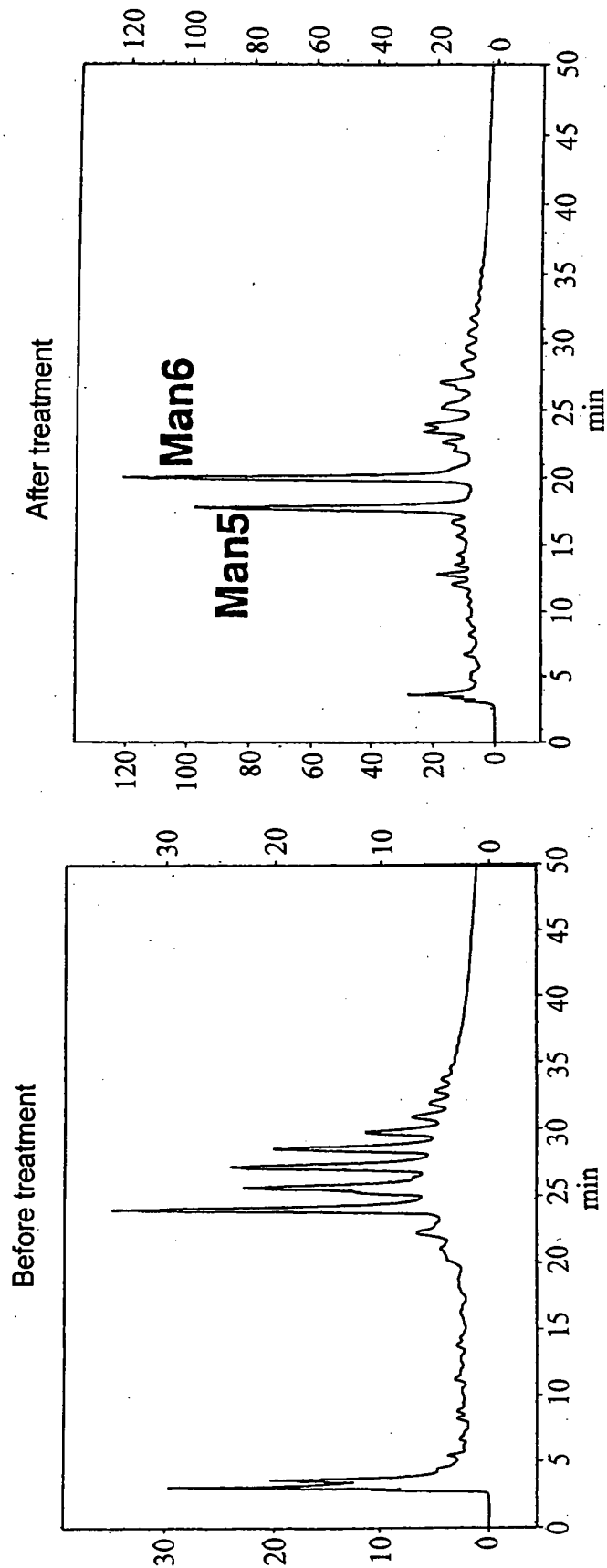


Ogataea minuta

10/511436

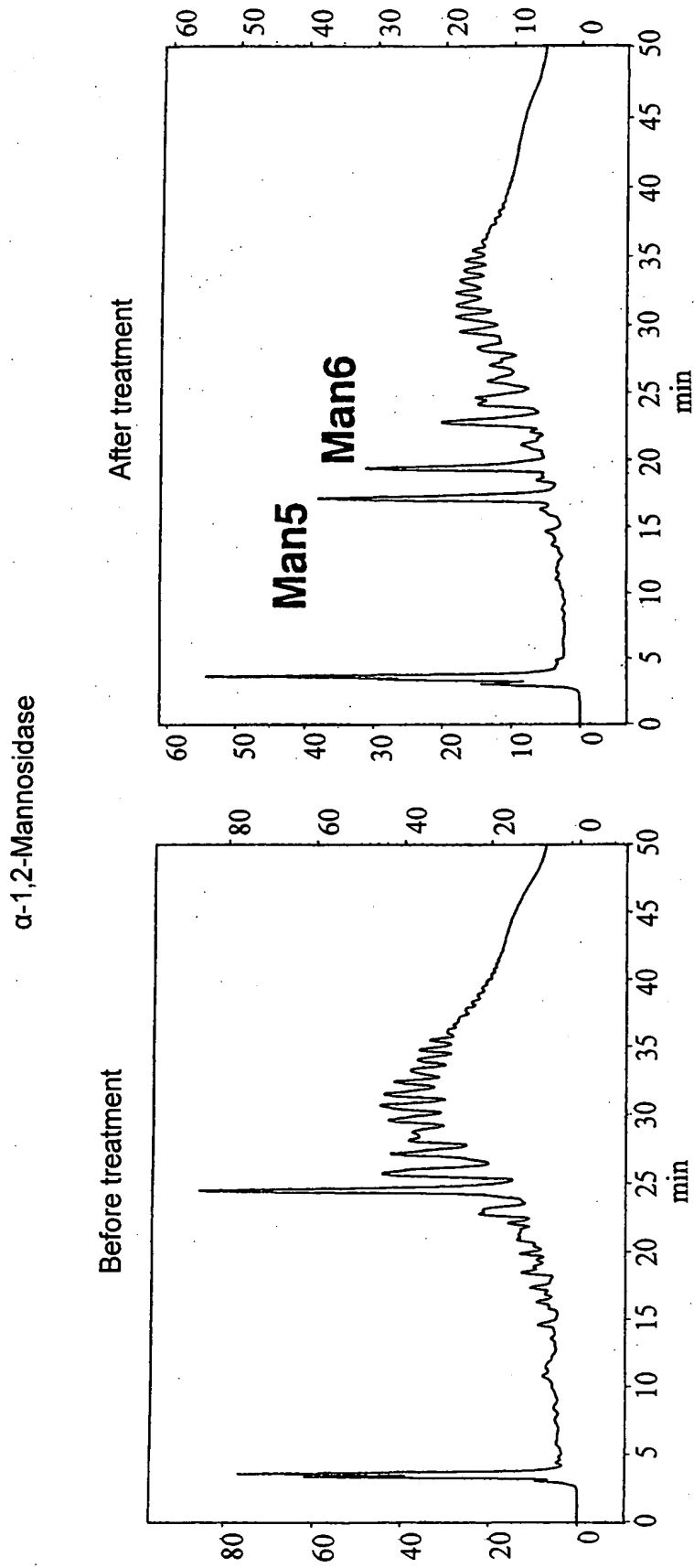
Fig. 4

α -1,2-Mannosidase



Candida succiphila

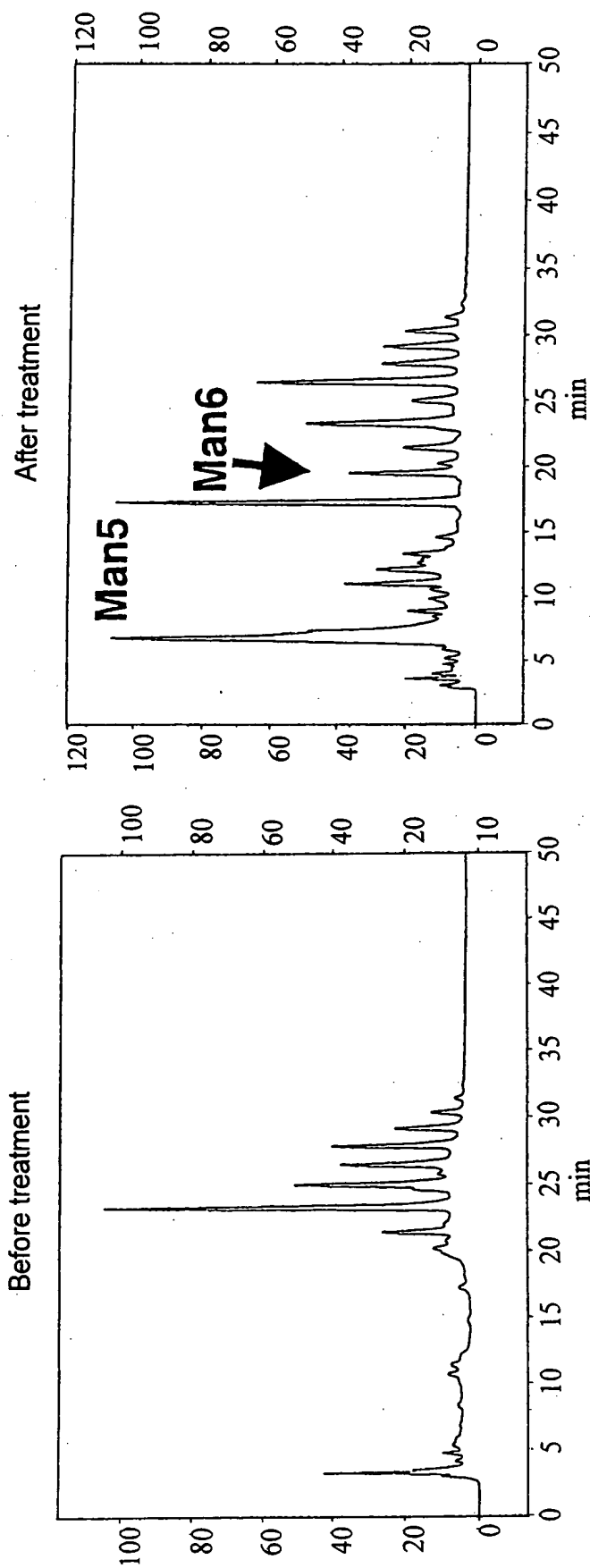
Fig. 4



10/511436

Fig. 4

α -1,2-Mannosidase



Saccharomyces cerevisiae

Fig. 5

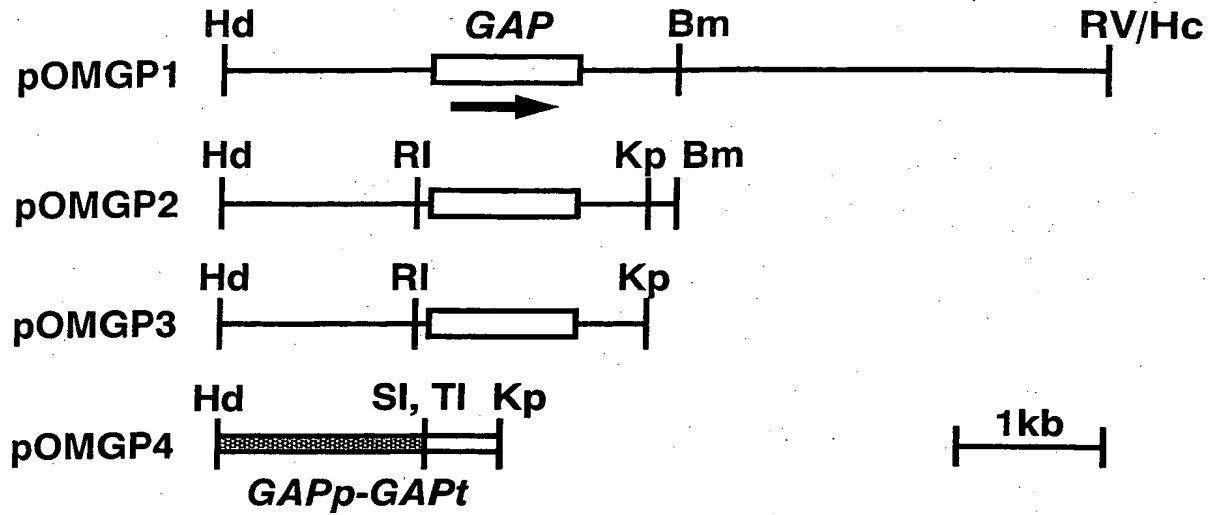
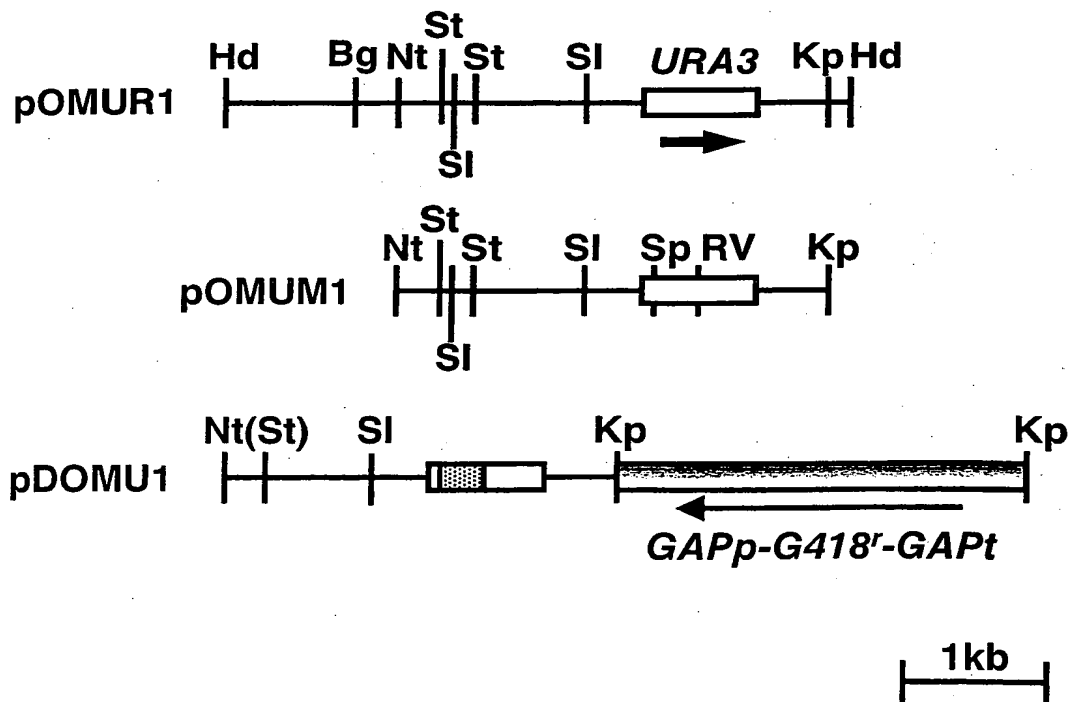


Fig. 6



10/511436

Fig. 7

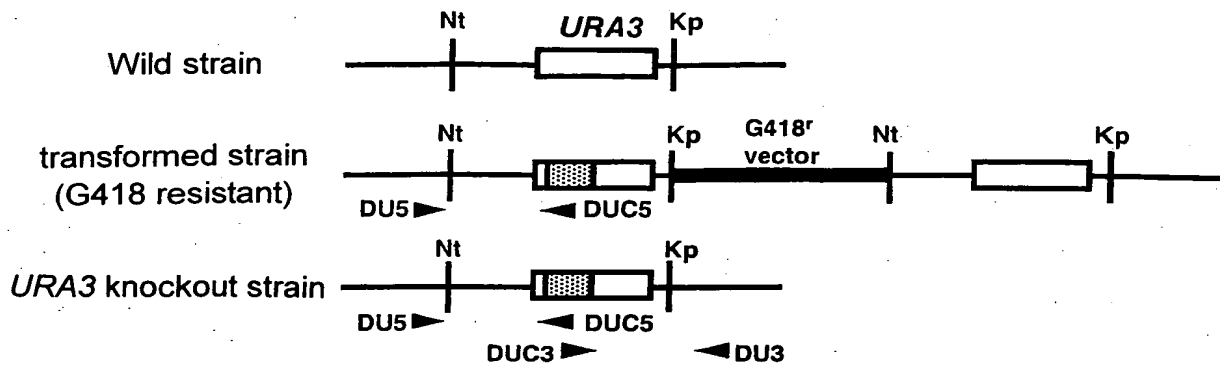


Fig. 8

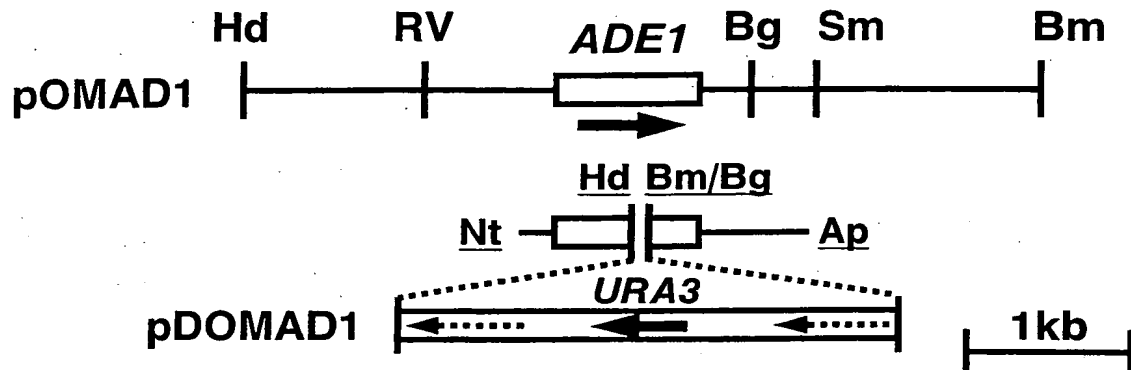


Fig. 9

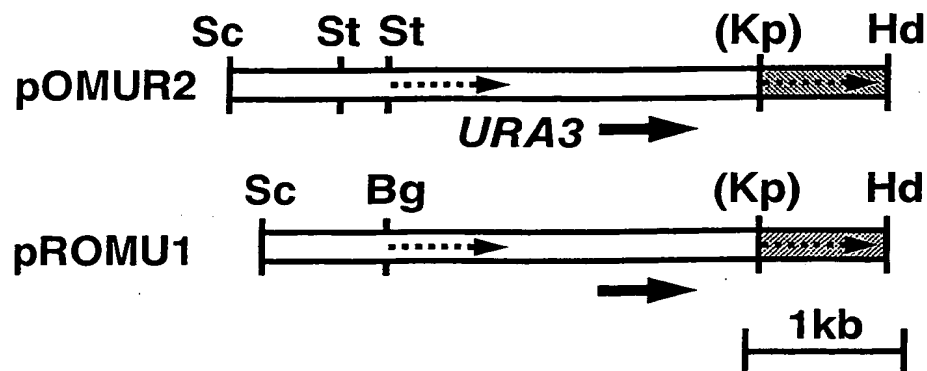


Fig. 10

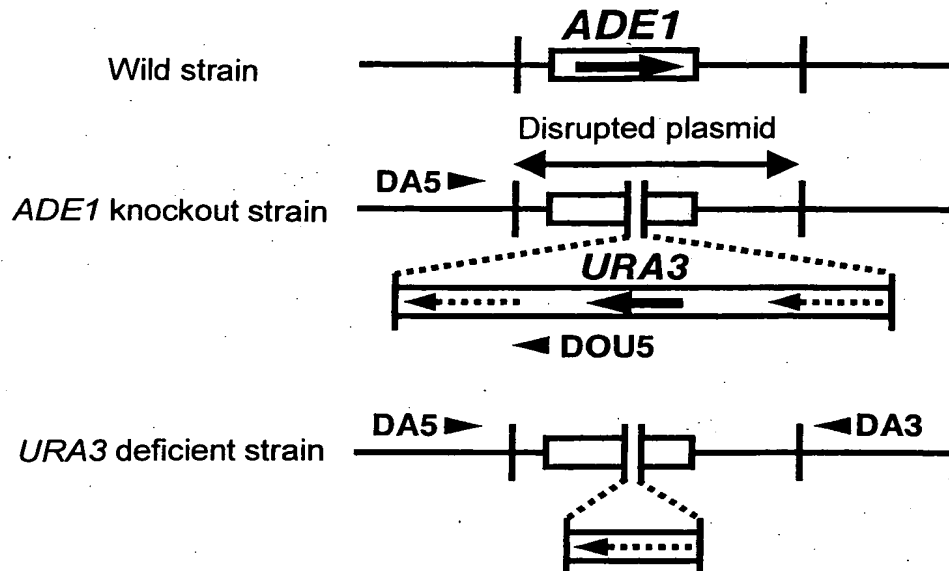


Fig. 11

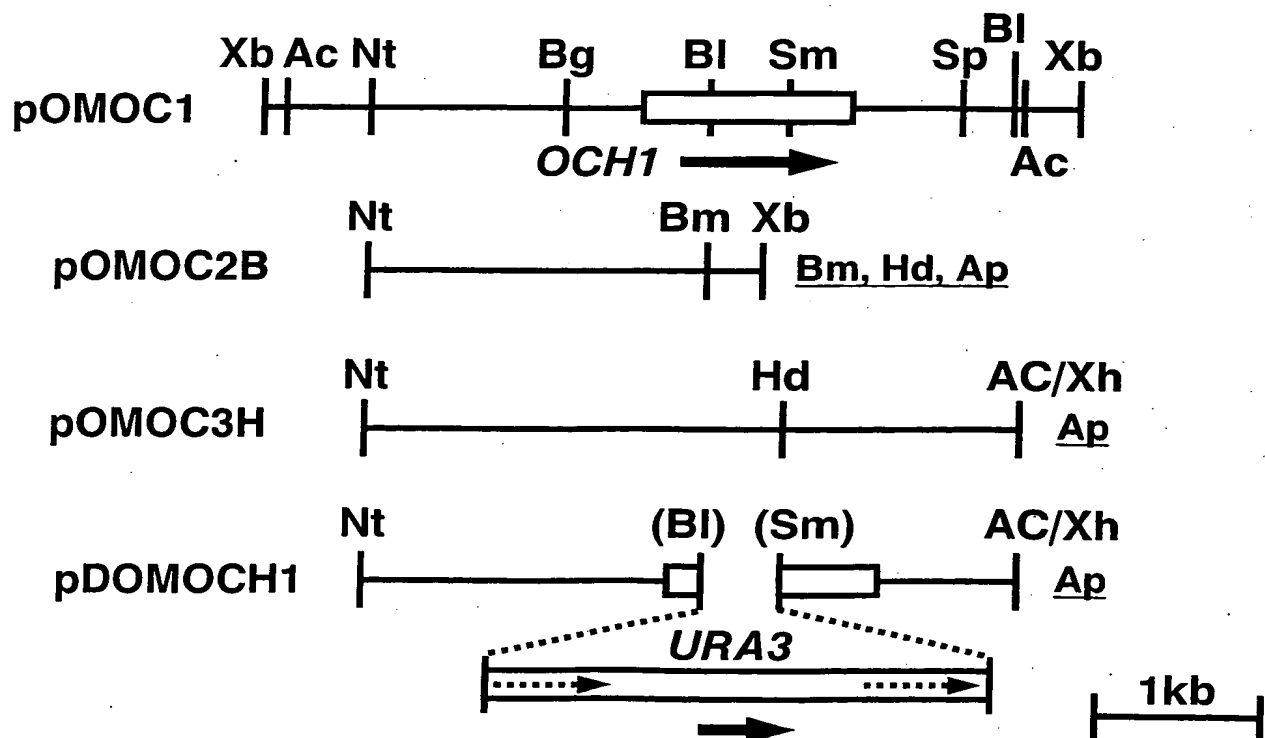
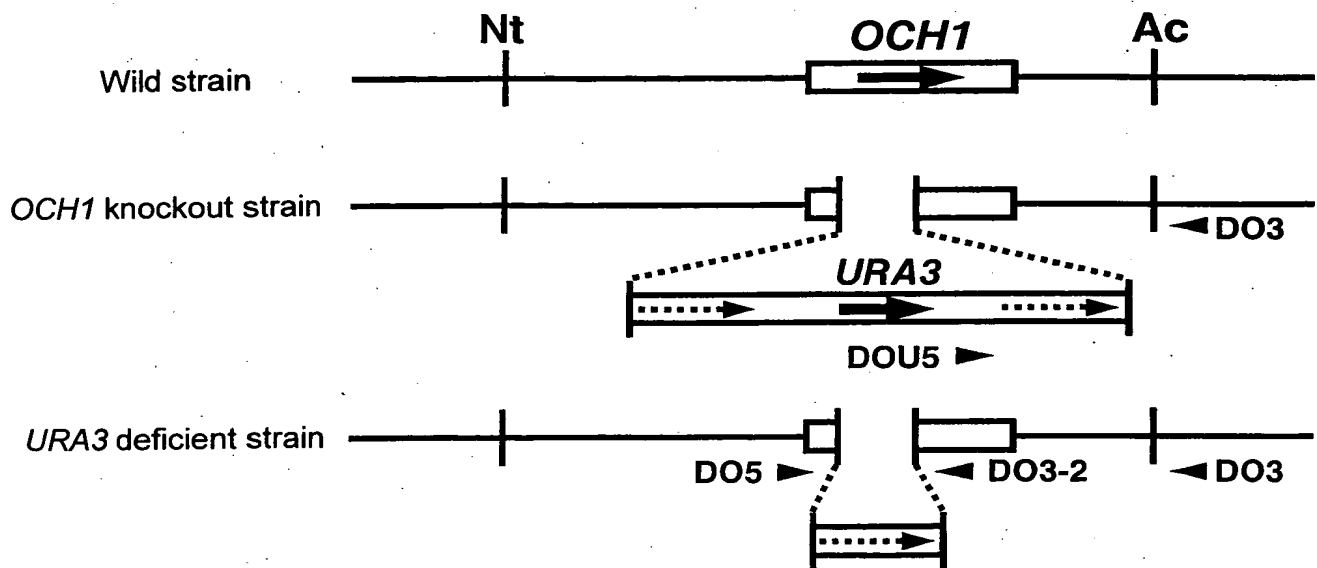
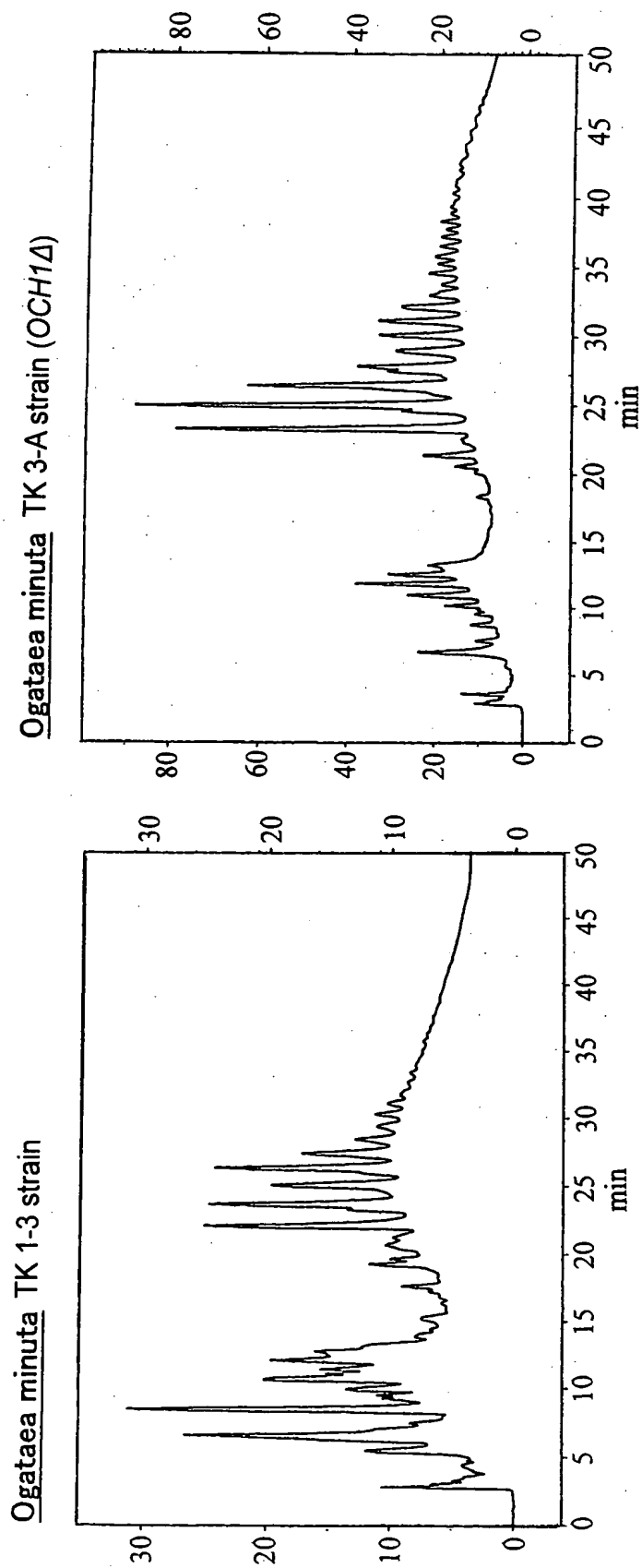


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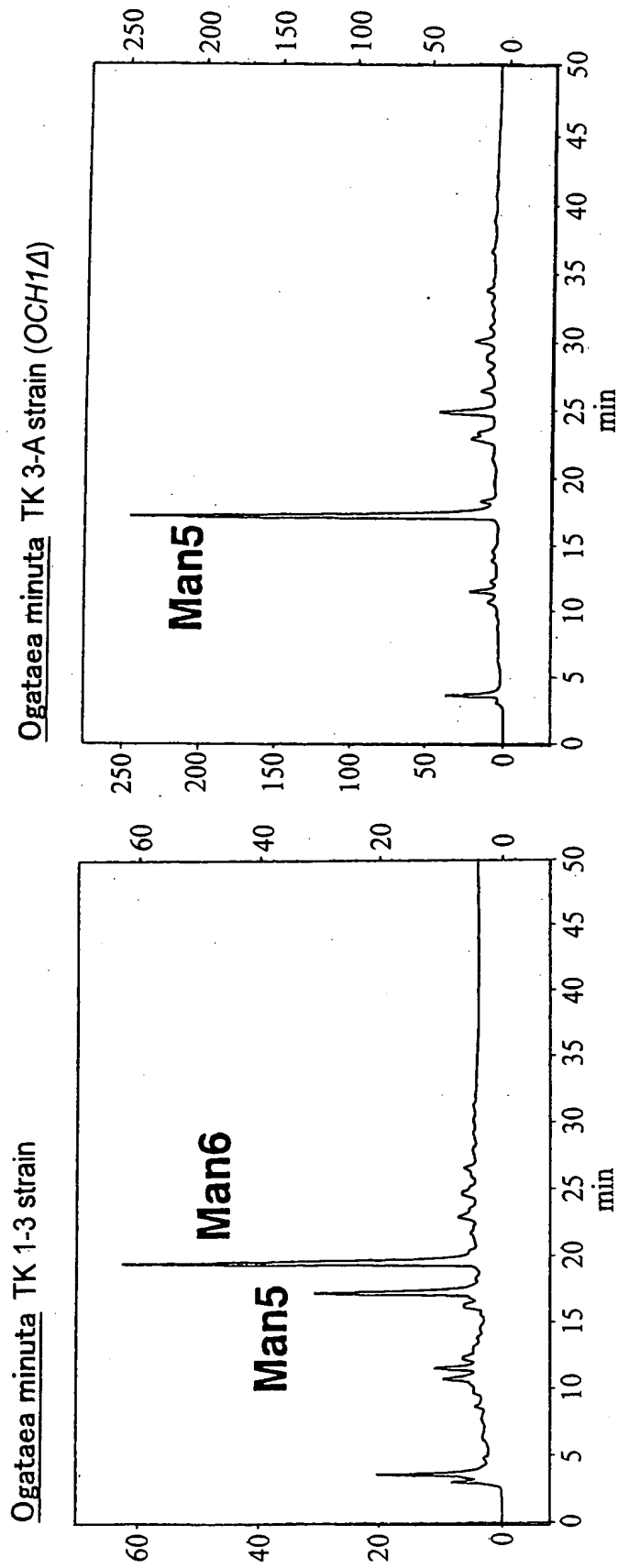
10/511436

Fig. 13



10/511436

Fig. 13



Amide column after digested with α -1,2-mannosidase

Fig. 13

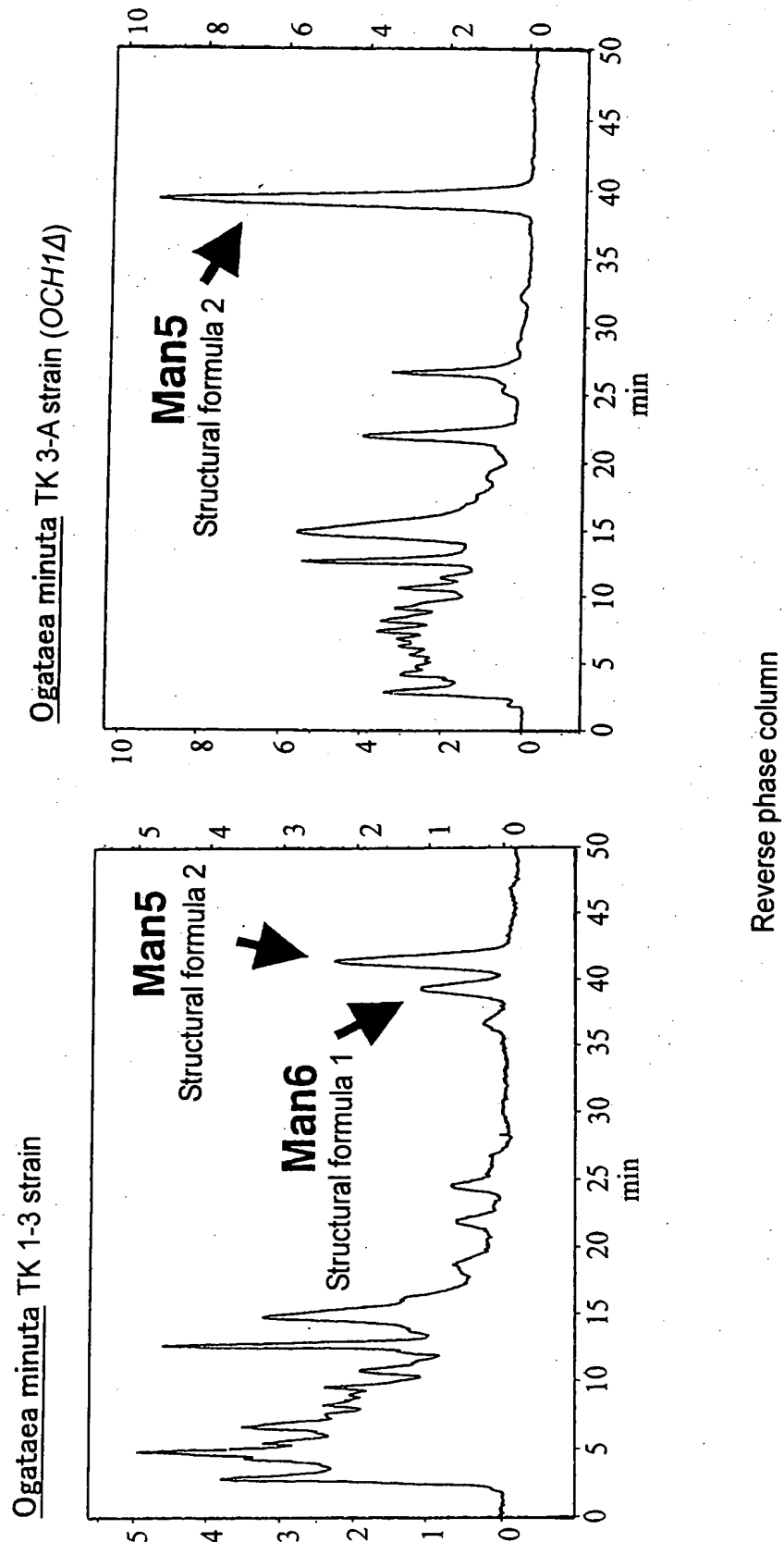


Fig. 14

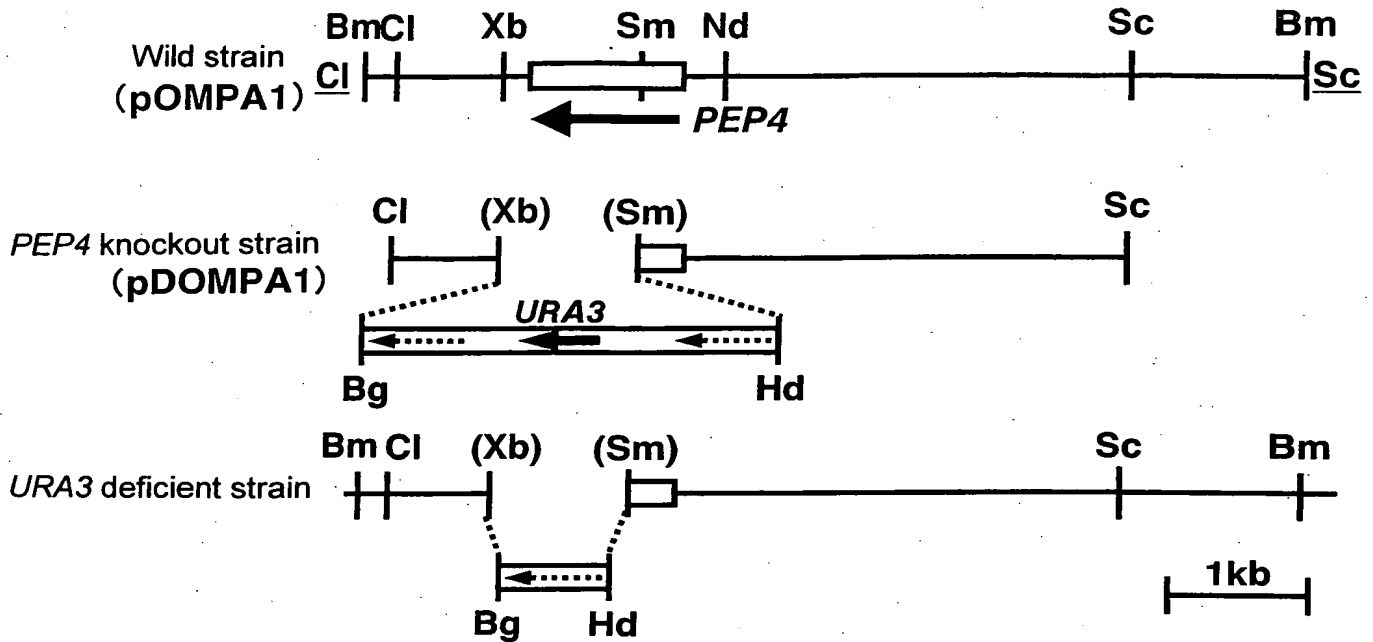


Fig. 15

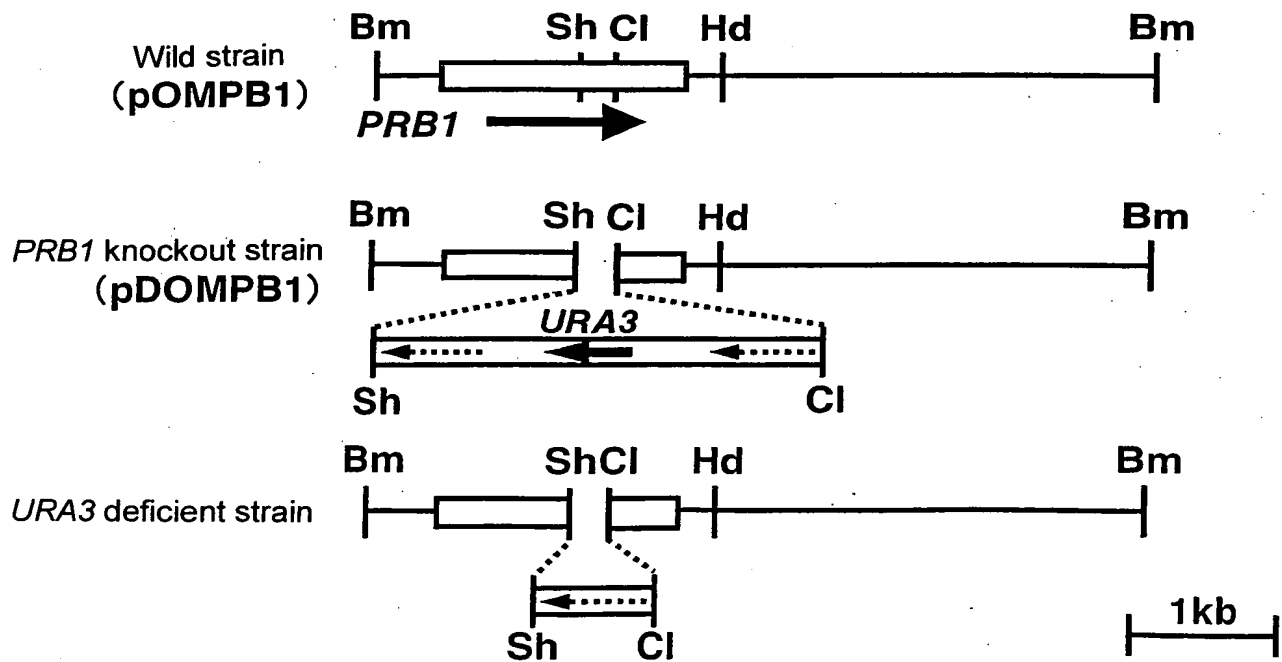


Fig. 16

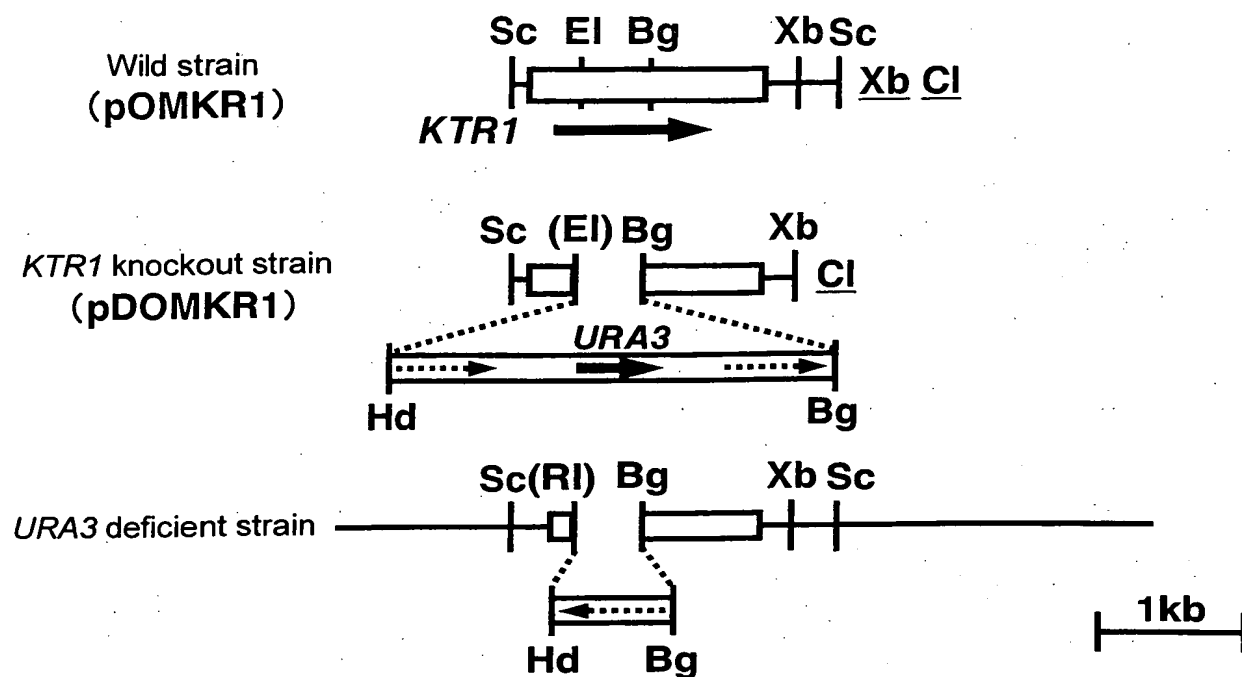


Fig. 17

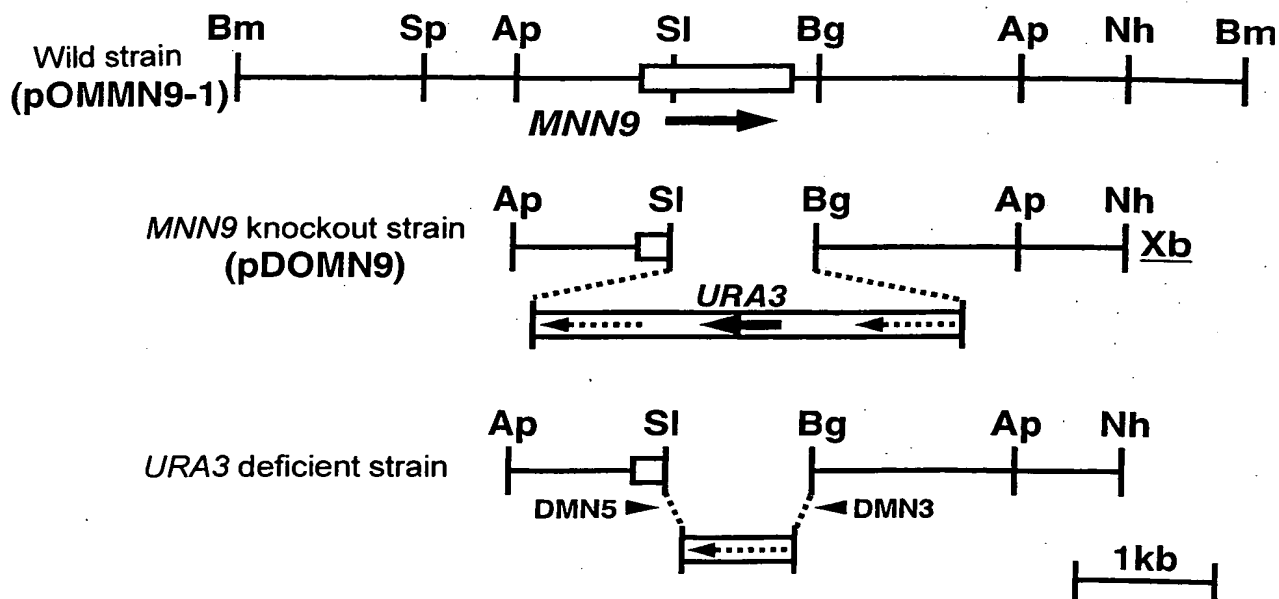
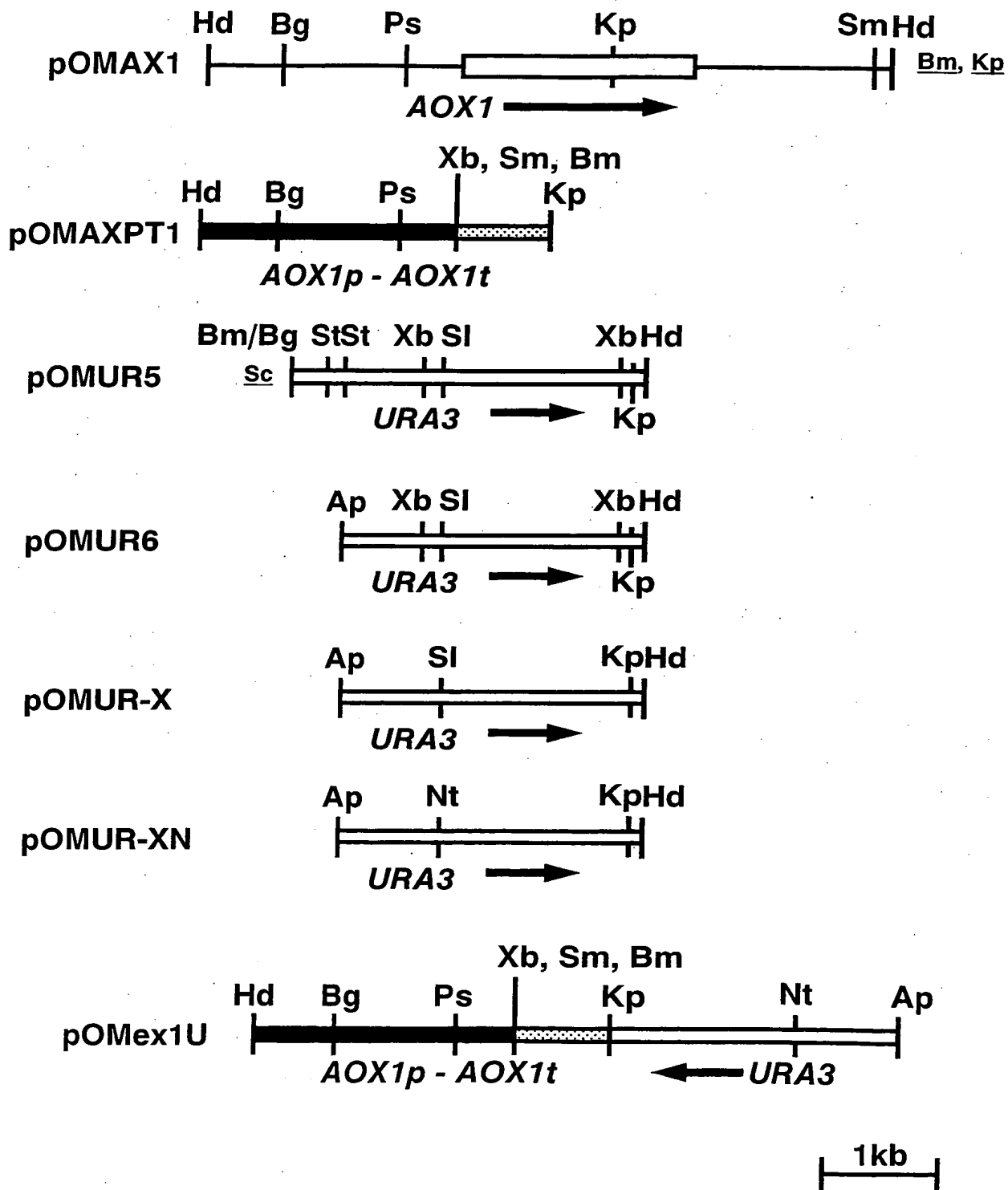


Fig. 18A



10/511436

Fig. 18B

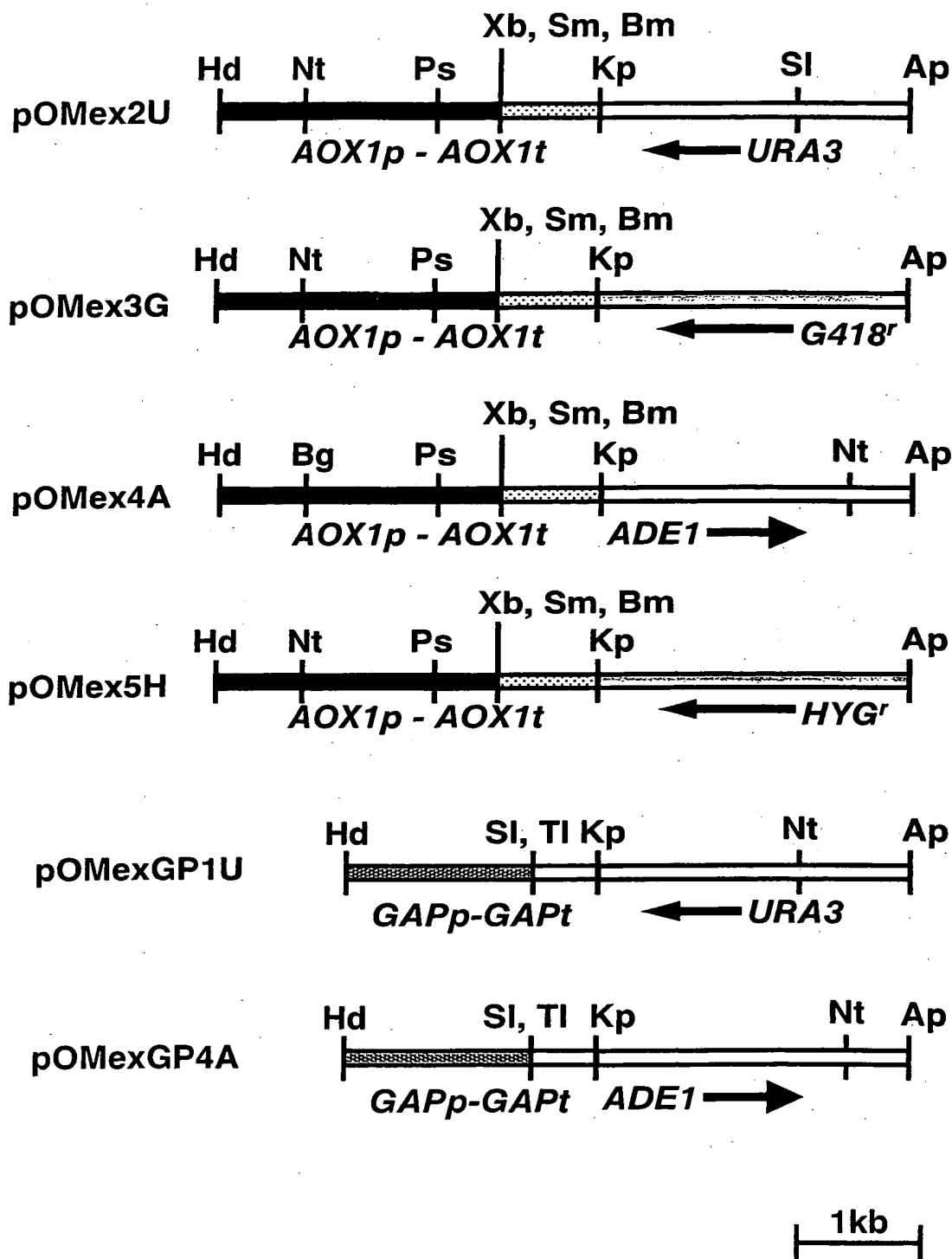
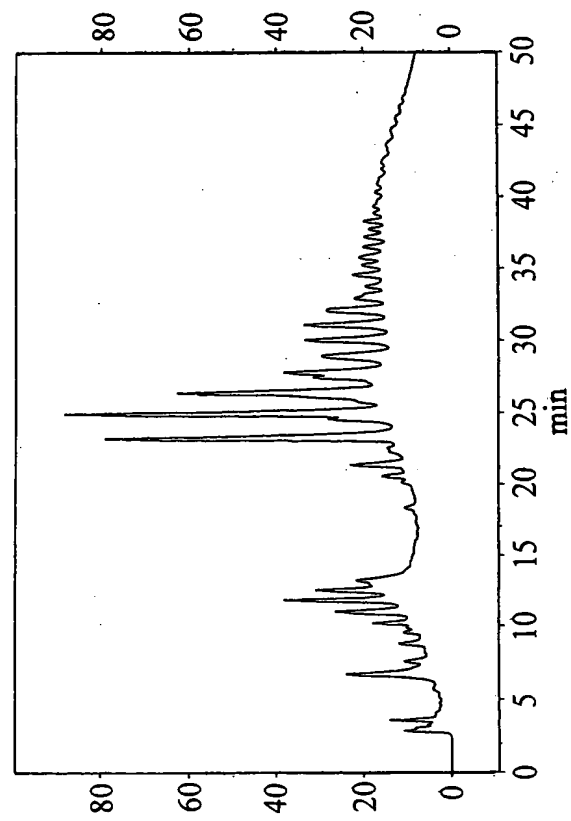


Fig. 19

Ogataea minuta TK3-A($\Delta och1$) strain
Amide column

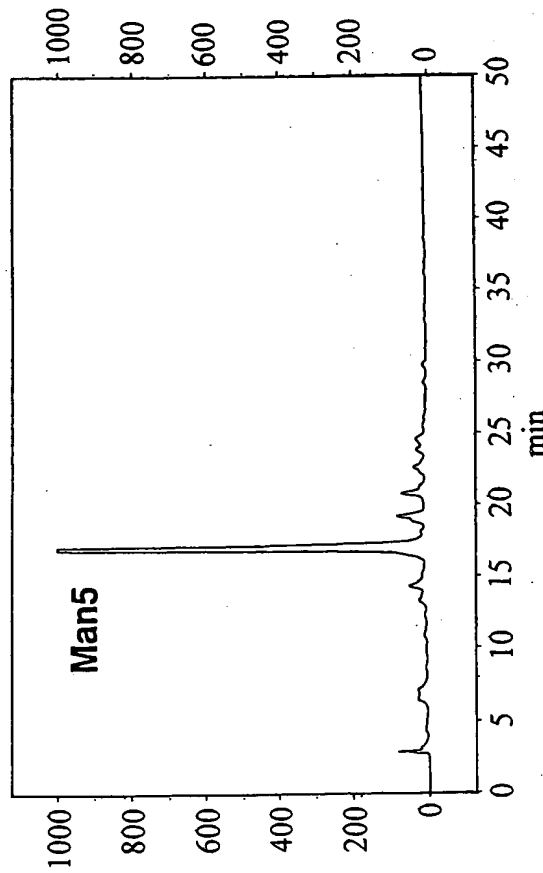


10/511436

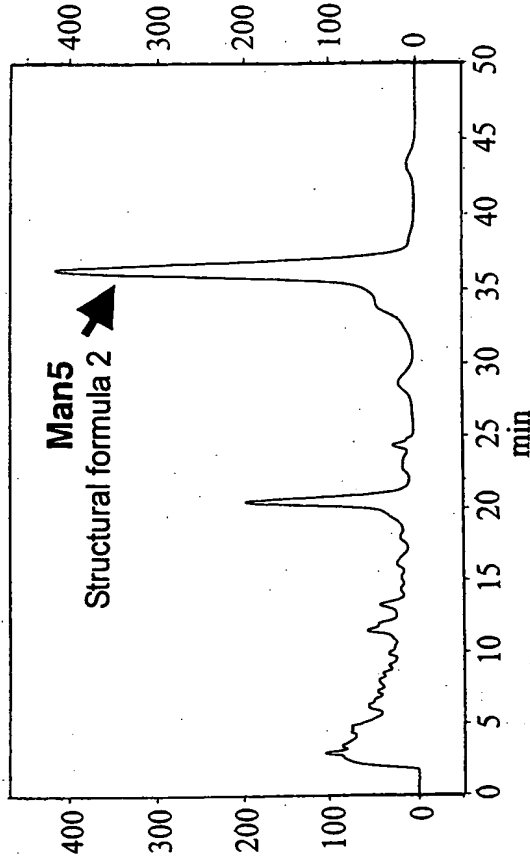
Fig. 19

Ogataea minuta TK3-A(Δ och1+ α -mannosidase) strain

Amide column



Reverse phase column



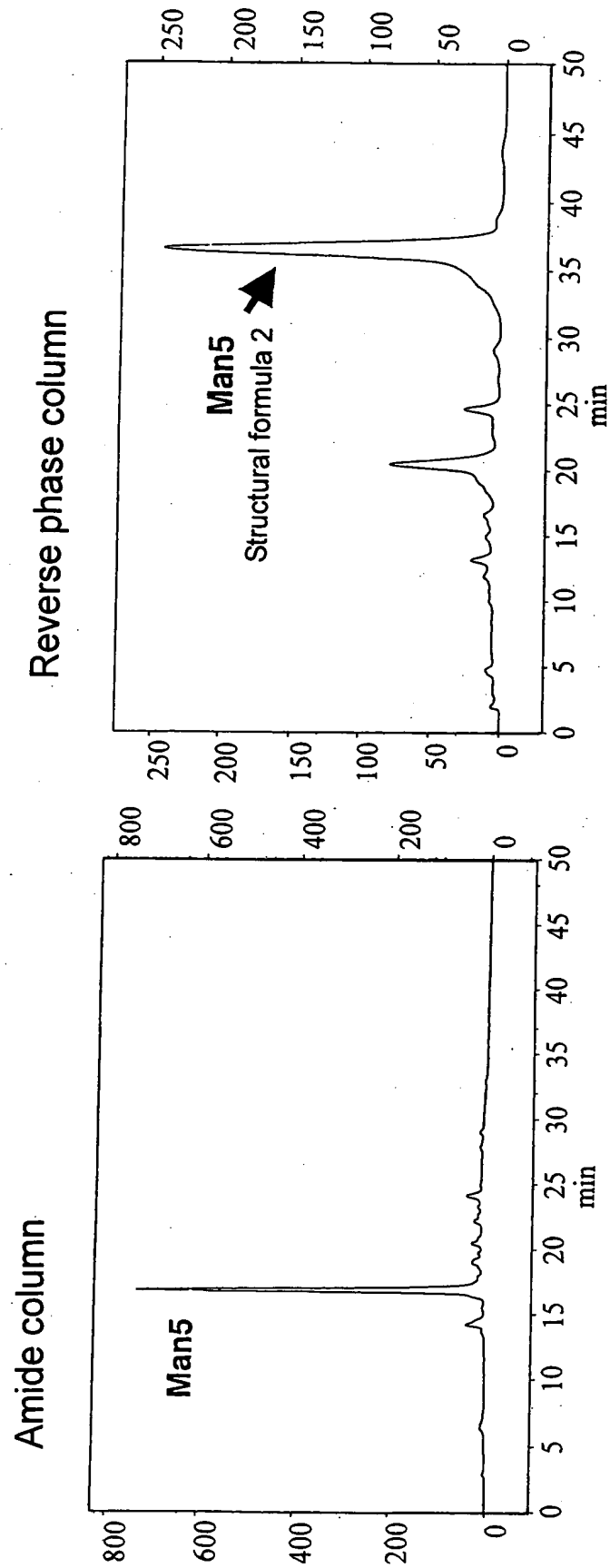
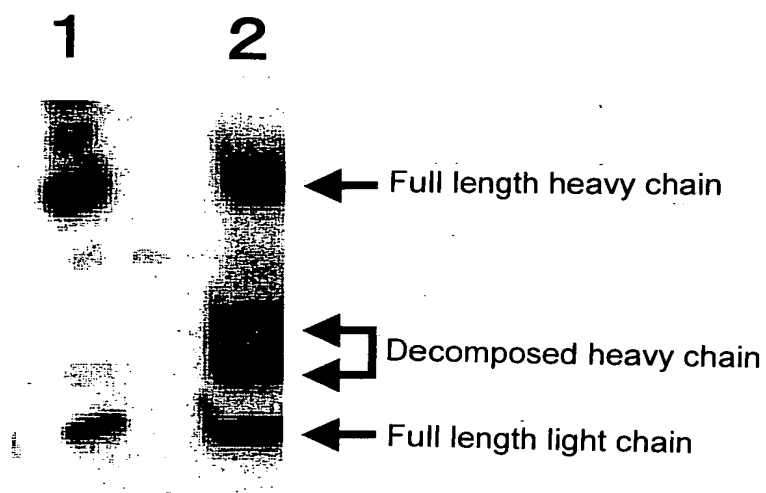


Fig. 20

10/511436

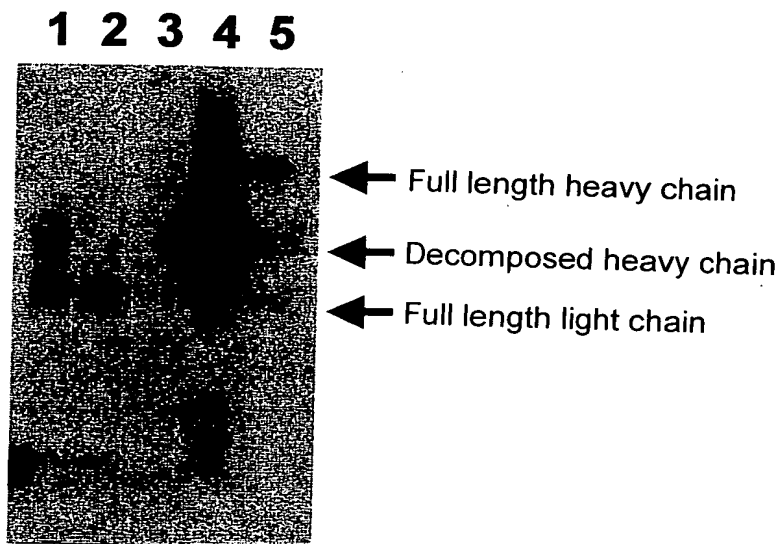
Fig. 21



1: Control antibody

2: Antibody produced by *Ogataea minuta* TK9-IgB-aM strain

Fig. 22



- 1.** Culture supernatant
- 2.** Column non-adsorbed fraction
- 3.** Wash fraction
- 4.** Elution fraction
- 5.** Control antibody

Fig. 23

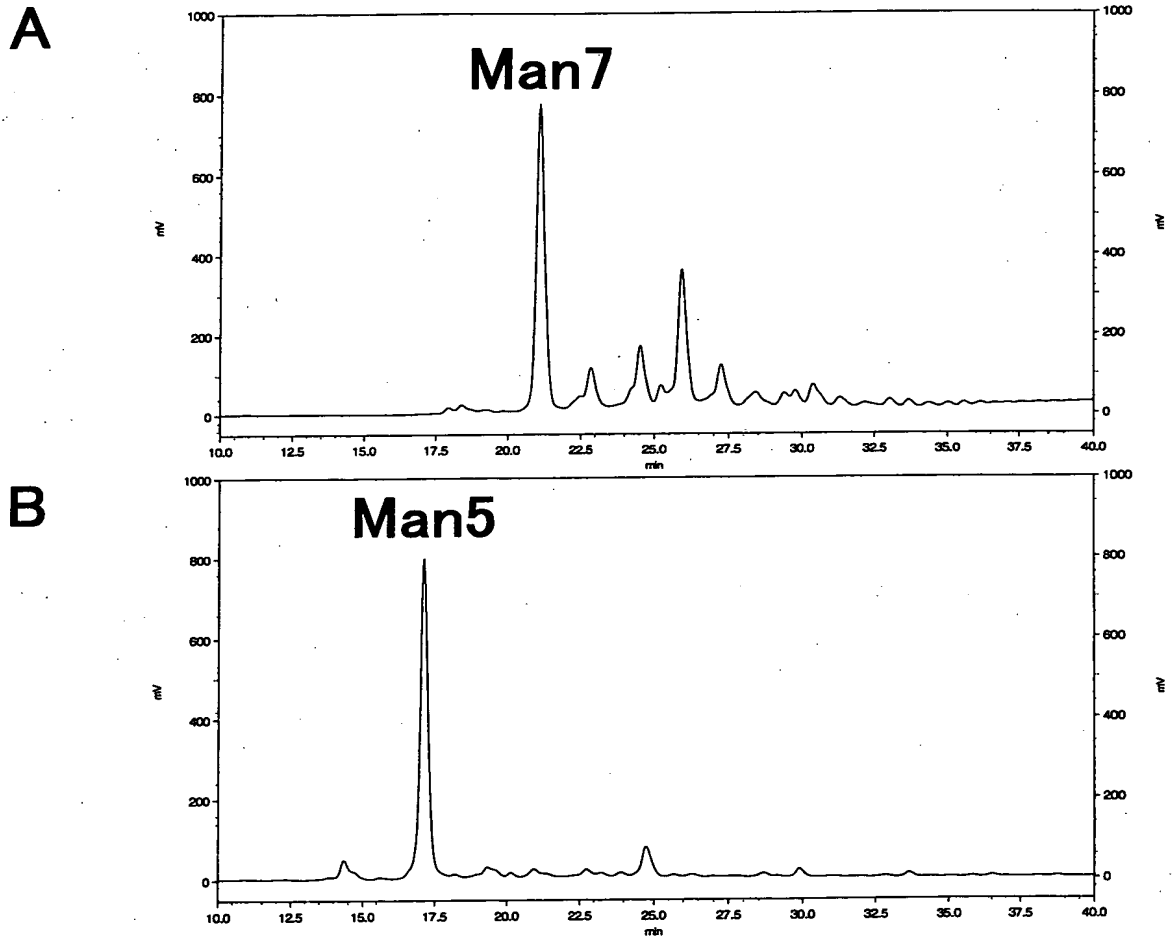
1 2



1. Control antibody

2. Antibody produced by *Ogataea minuta* TK9-IgB-aM strain

Fig. 24



A. *Ogataea minuta* TK9-IgB strain

B. *Ogataea minuta* TK9-IgB-aM strain

Fig. 25

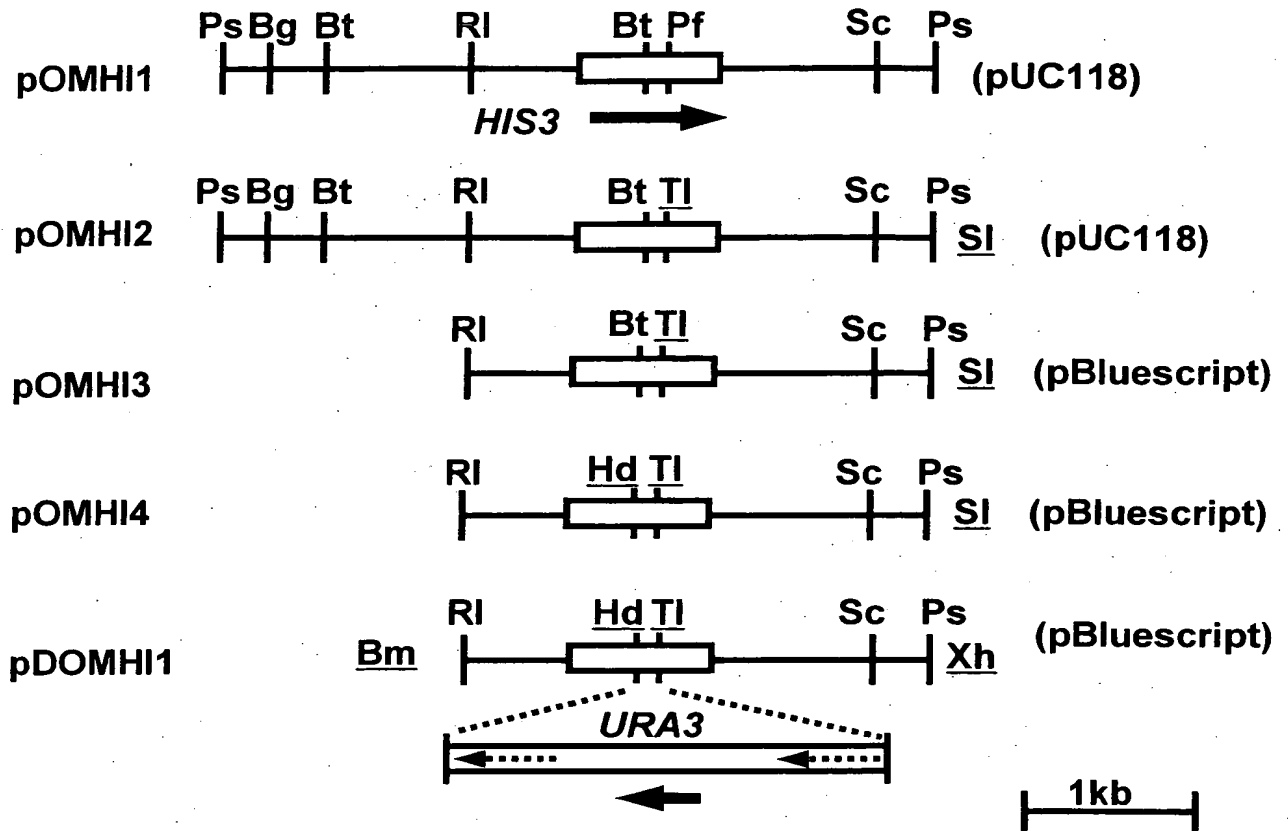
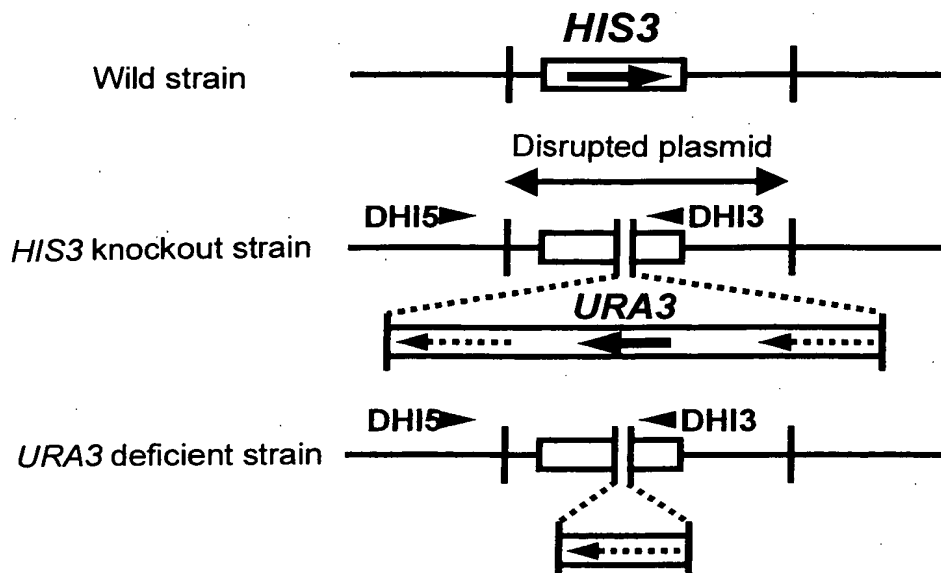


Fig. 26



10/511436

Fig. 27

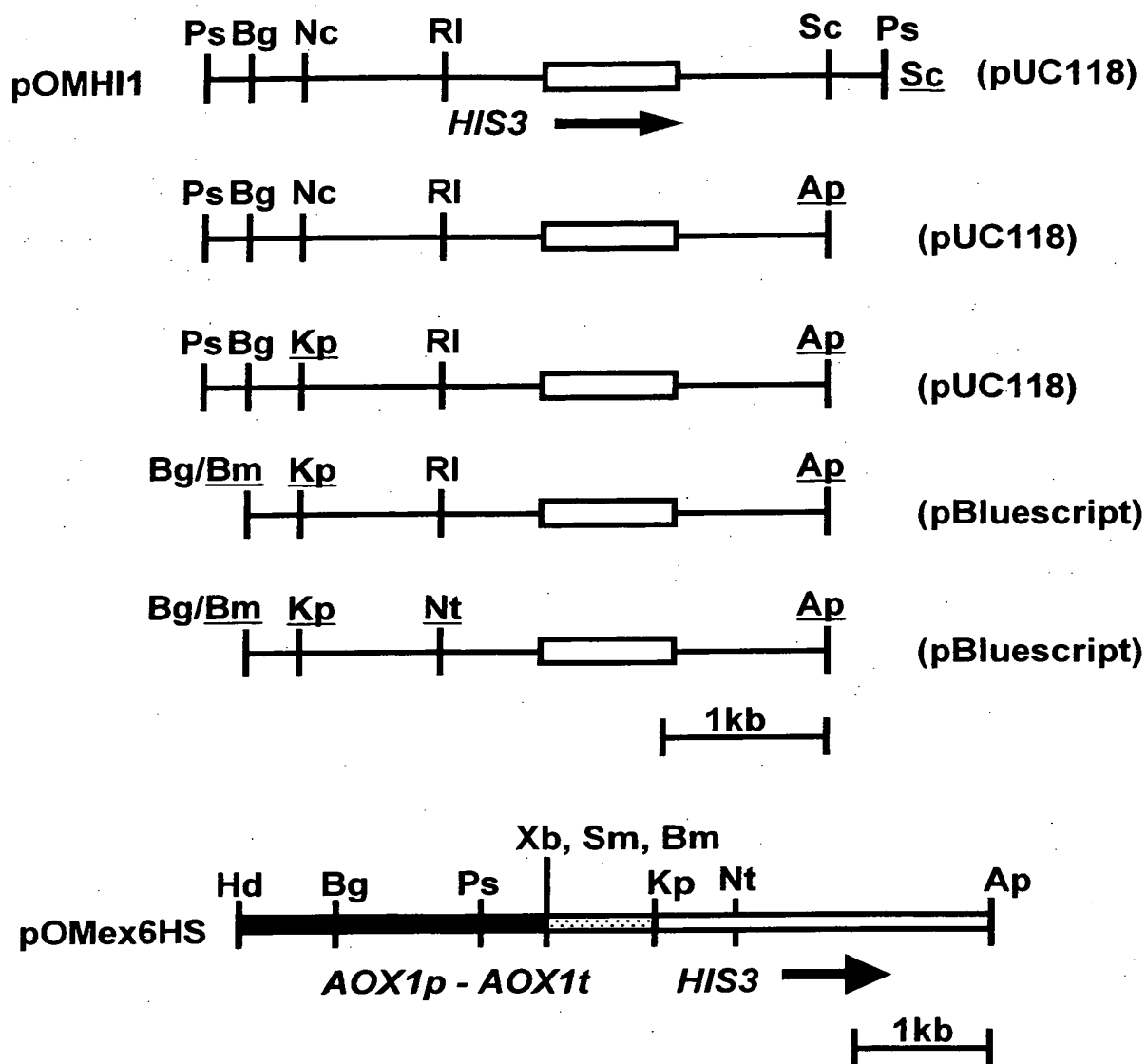


Fig. 28

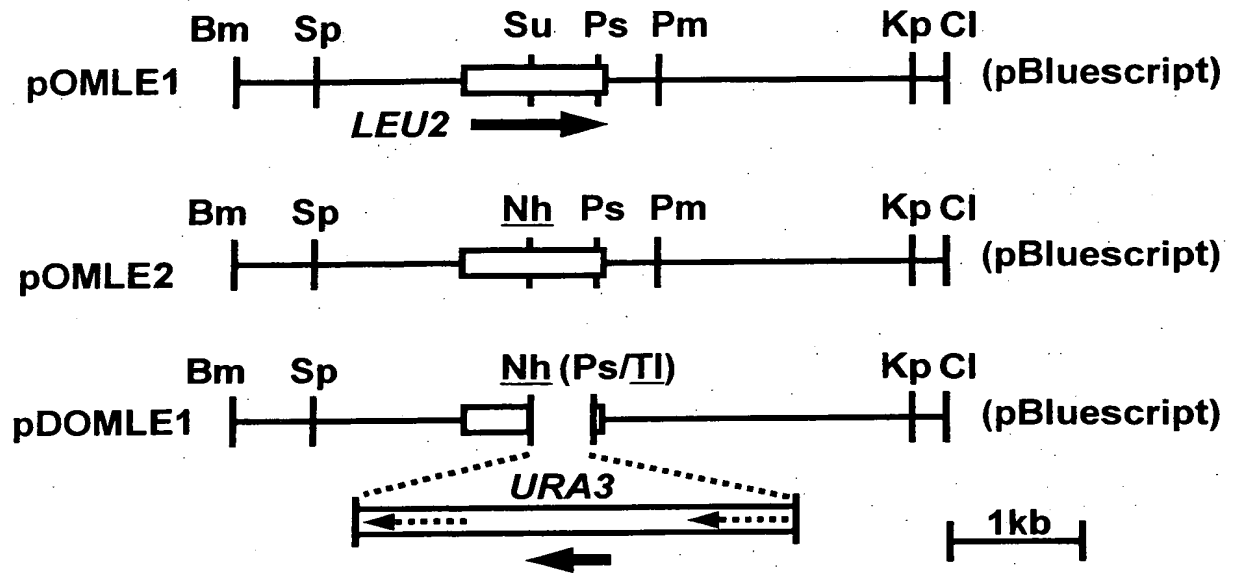
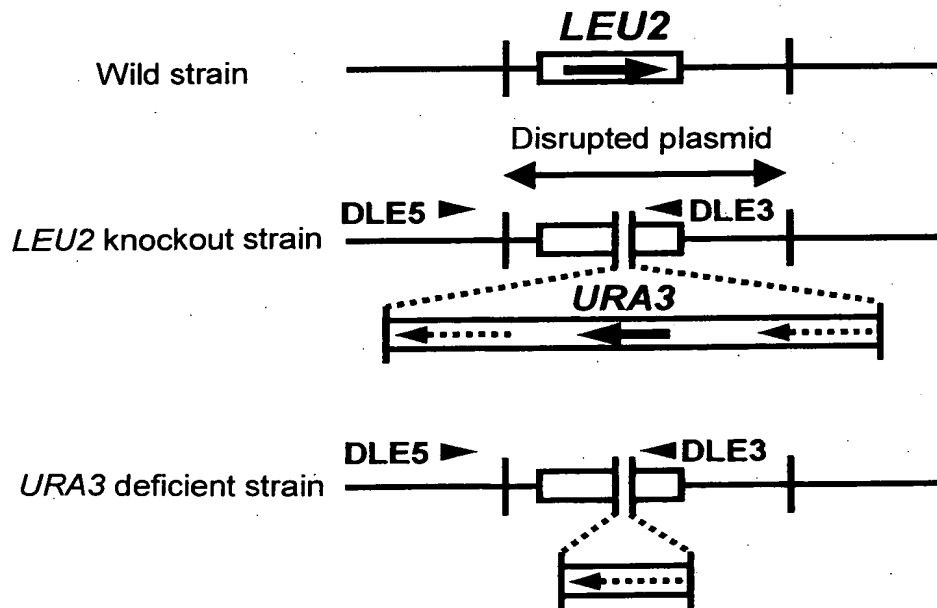


Fig. 29



10/511436

Fig. 30

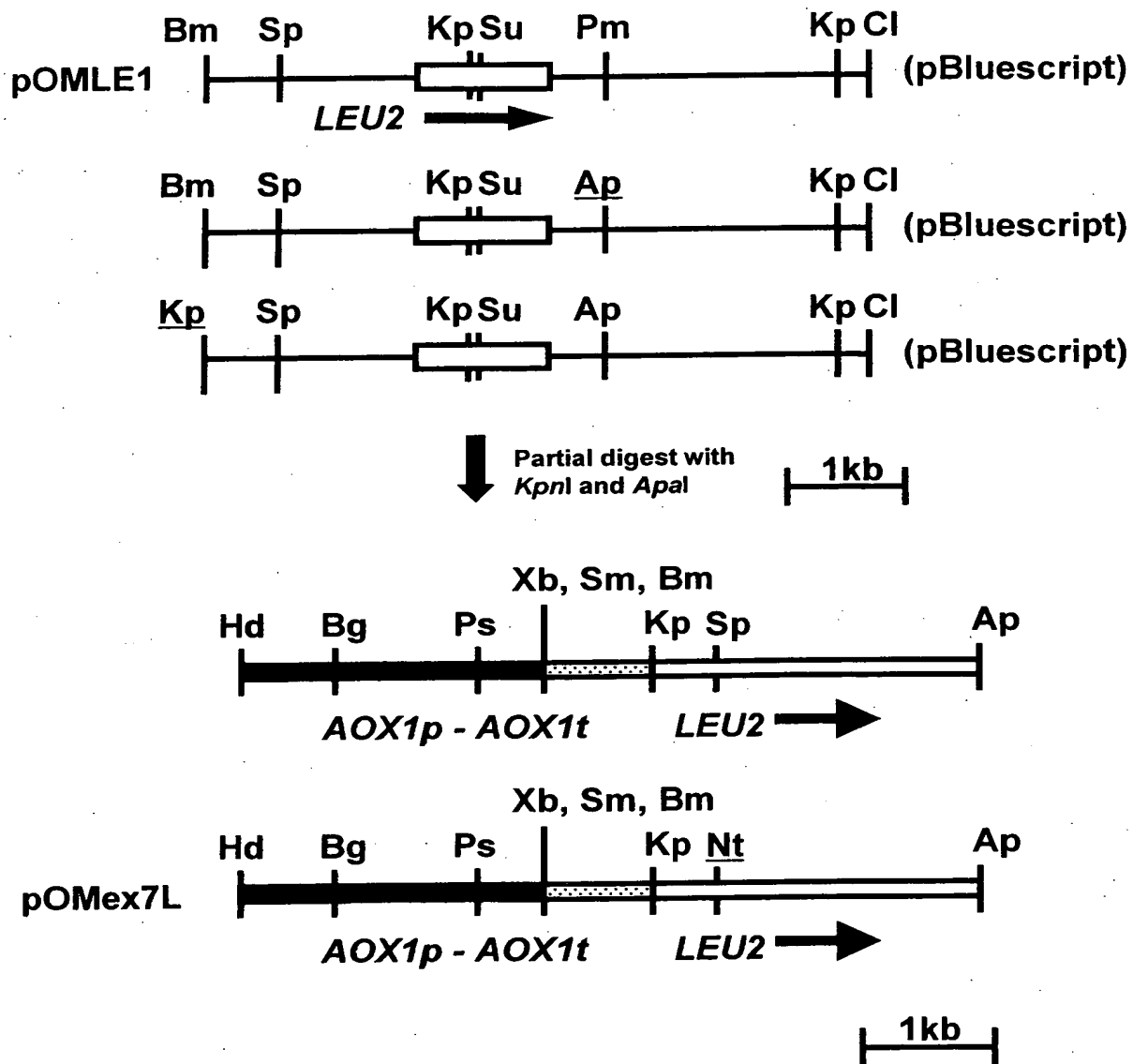


Fig. 31

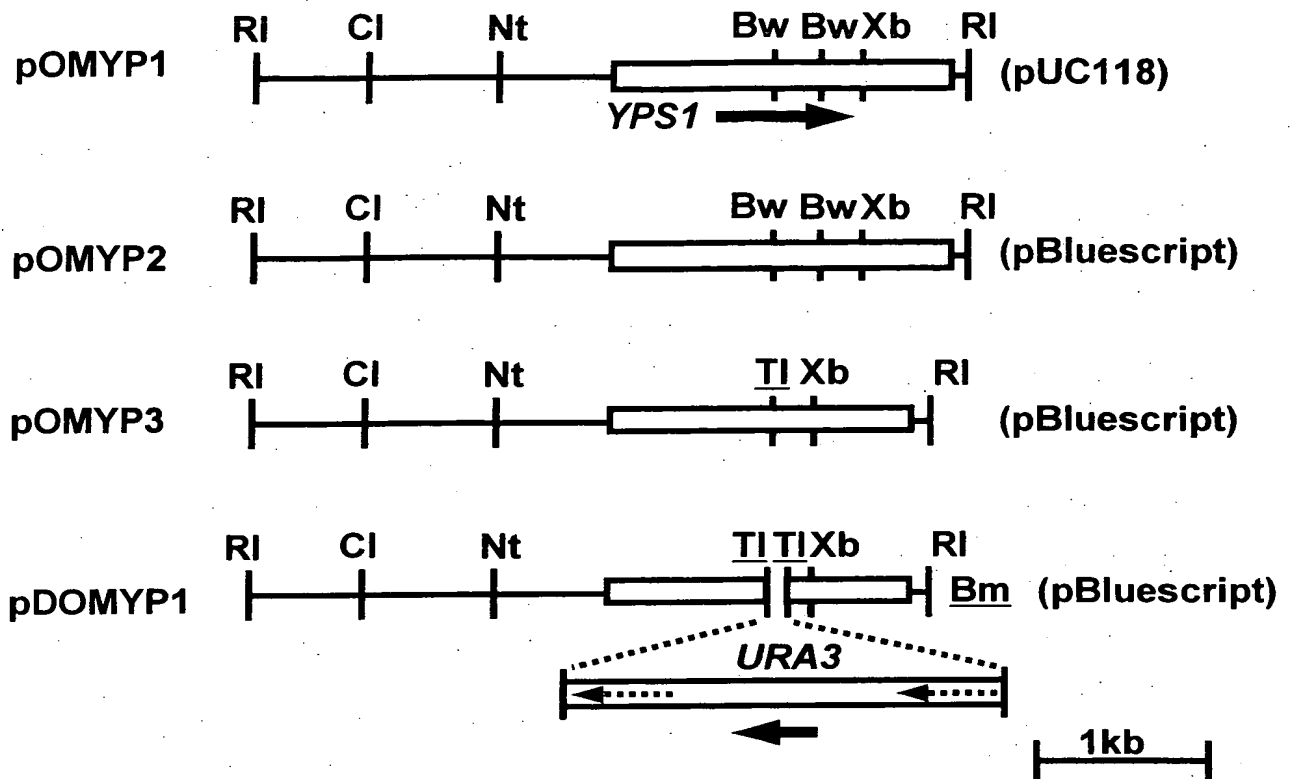


Fig. 32

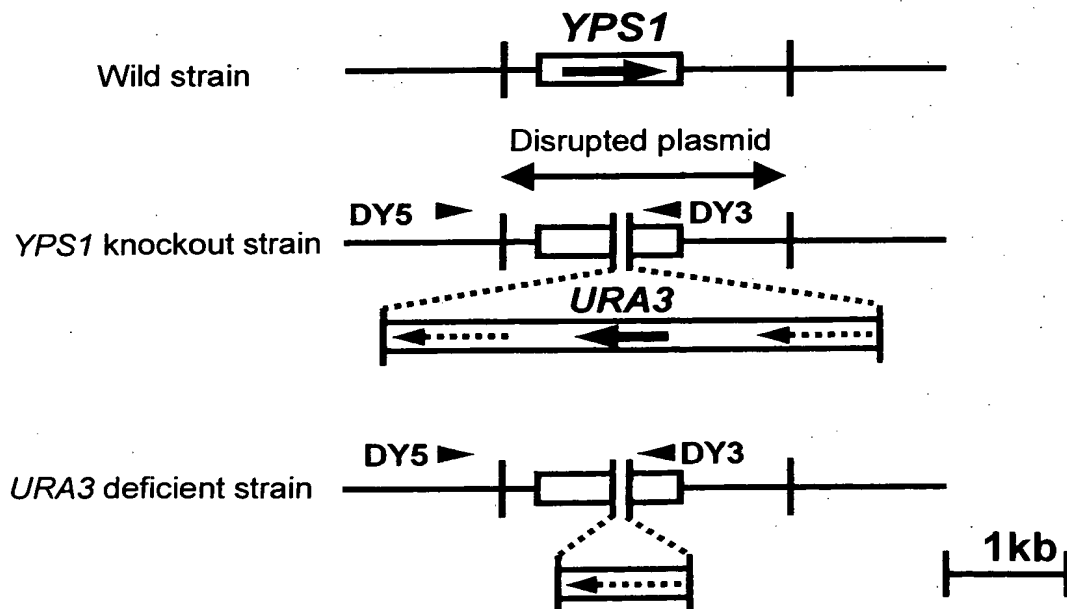


Fig. 33

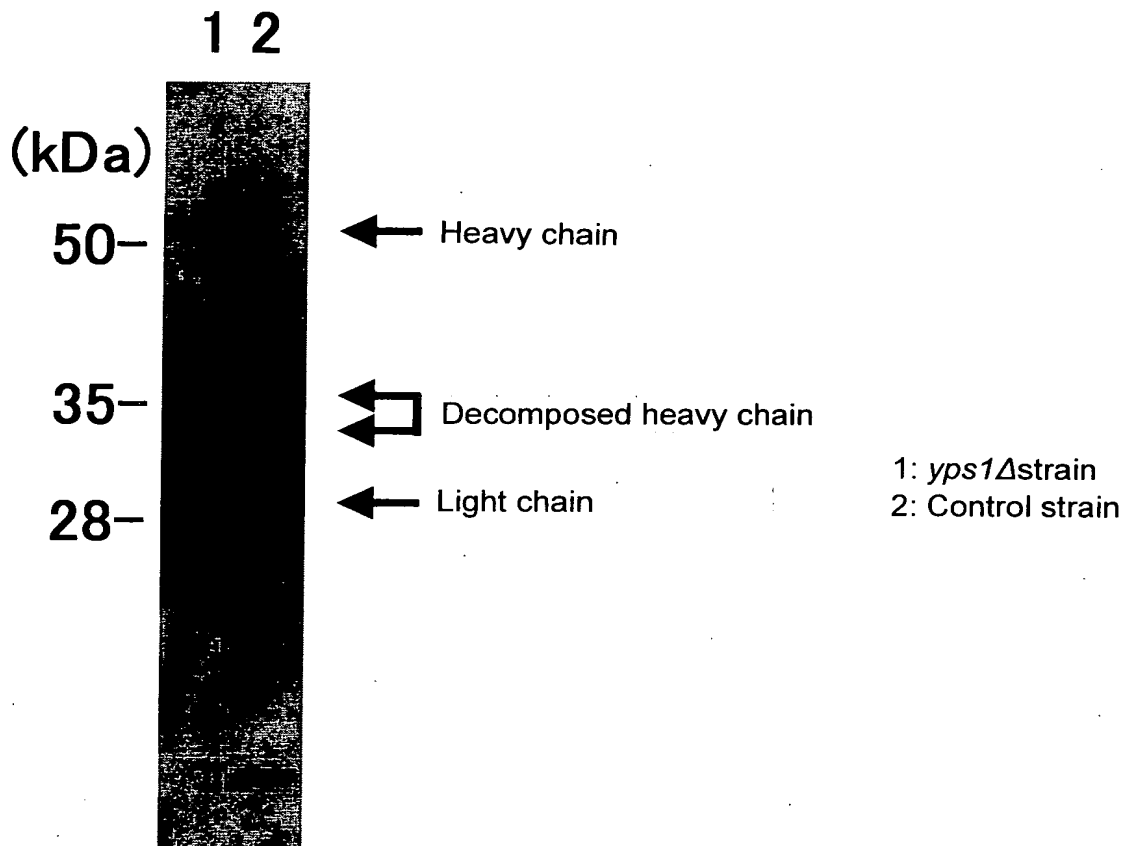
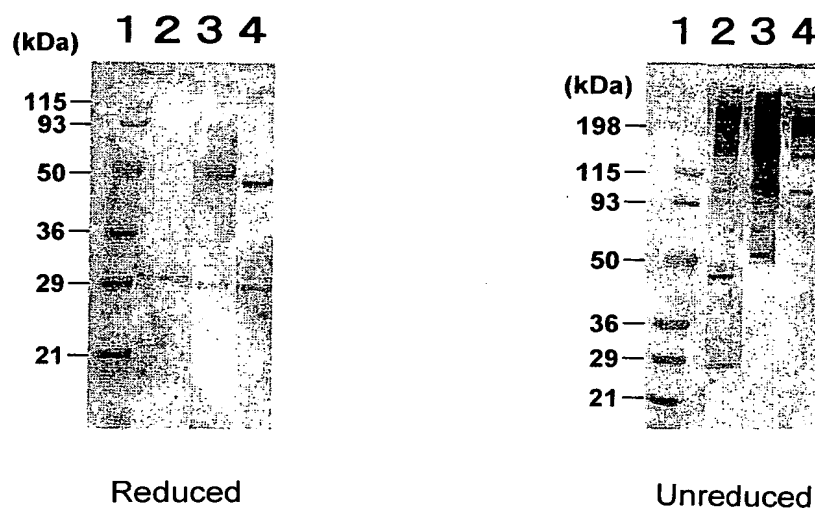


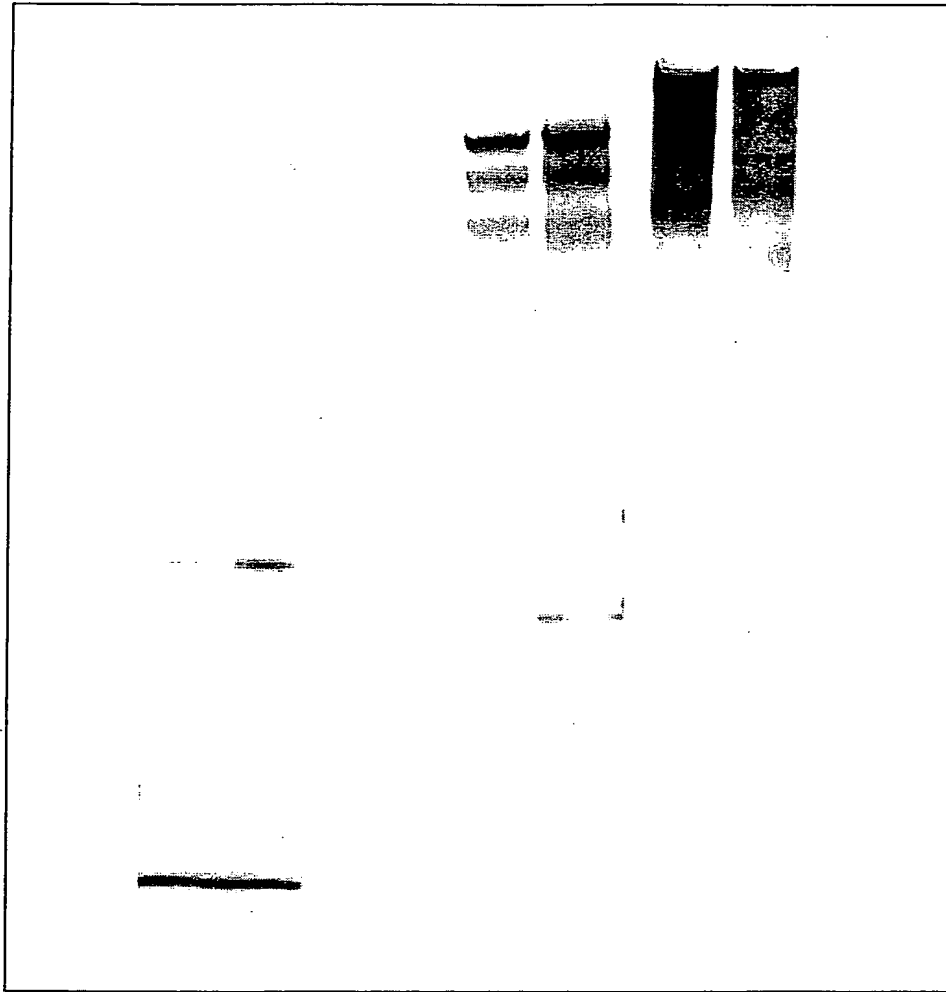
Fig. 34



- 1 Molecular weight marker
- 2 Yeast culture supernatant
- 3 Protein A Elution fraction
- 4 Control antibody

Fig. 35

1 2 3 4 5 6



Lanes 1, 3, 5 ;

Control strain (Ogataea minuta YK3-IgB1-aM strain)

Lanes 2, 4, 6 ;

PDI-transferred strain (Ogataea minuta YK3-IgB1-aM-P strain)

Lanes 1, 2: Reduced (Culture supernatant)

Lanes 3, 4: Unreduced (Culture supernatant)

Lanes 5, 6: Unreduced (Cell extract)